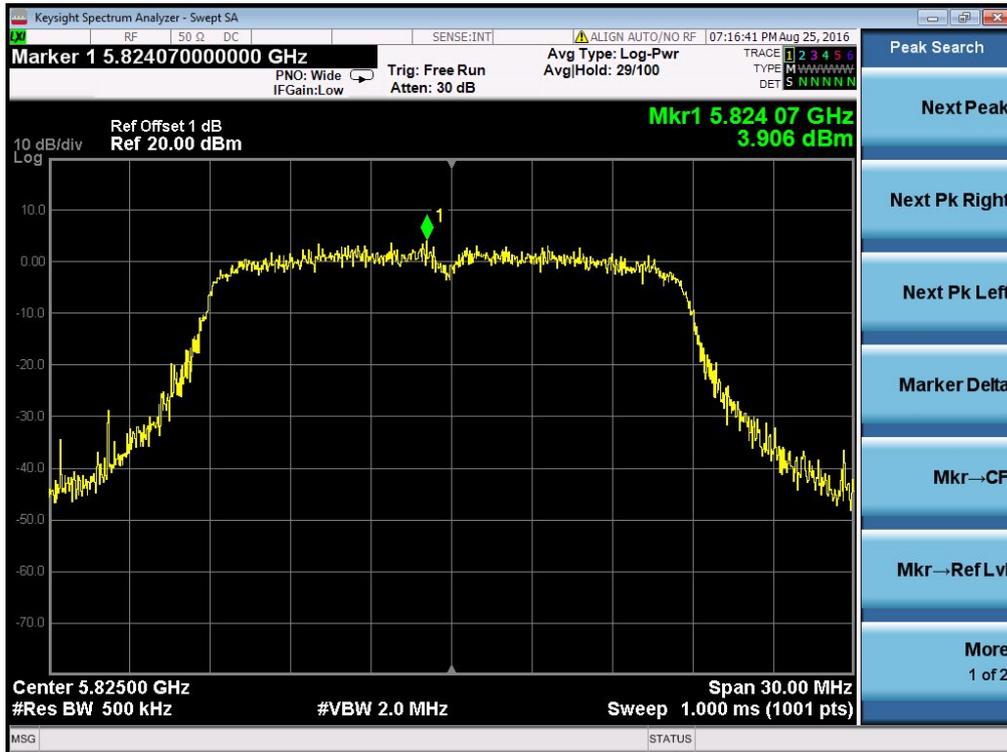
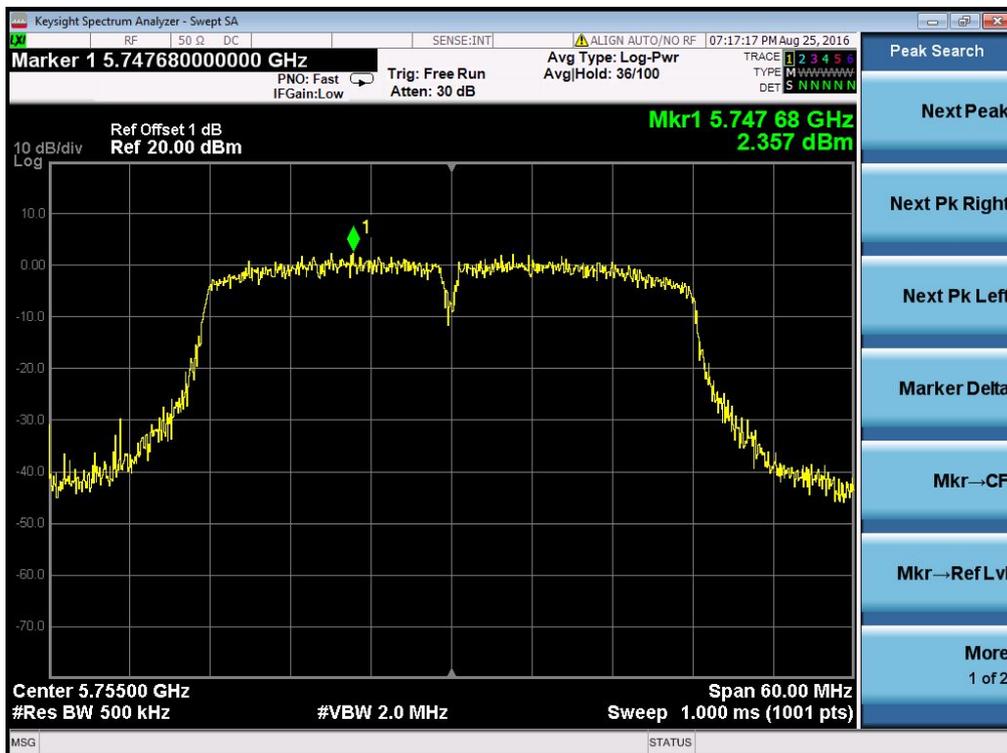


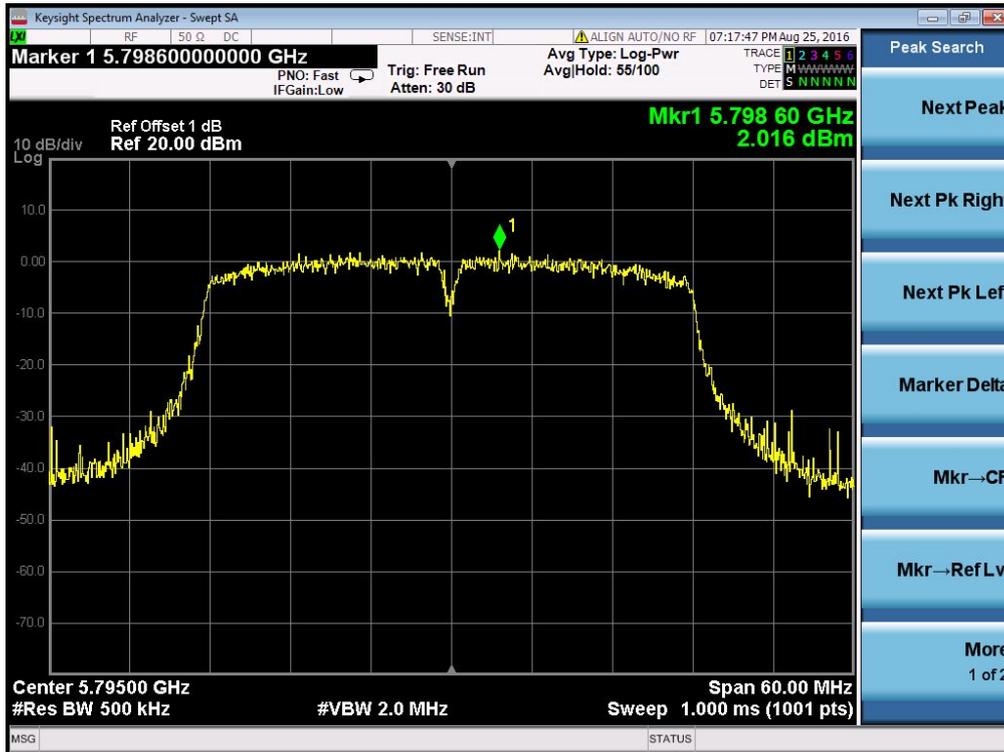
## Antenna 0 - 802.11ac-VHT20 - 5825MHz



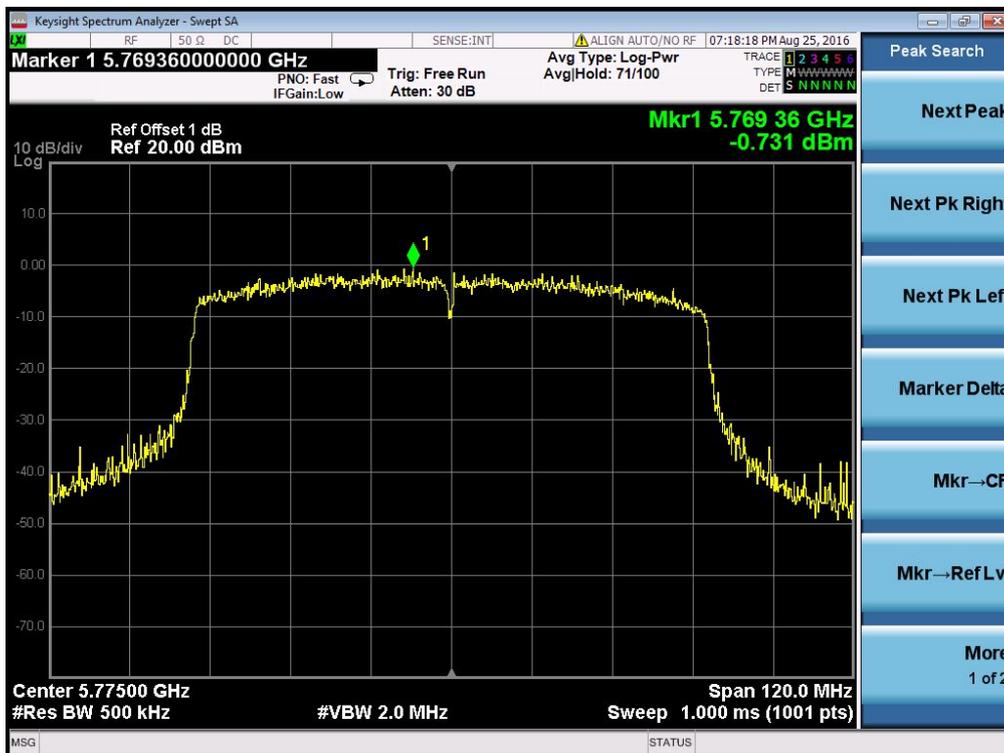
## Antenna 0 - 802.11ac-VHT40 - 5755MHz



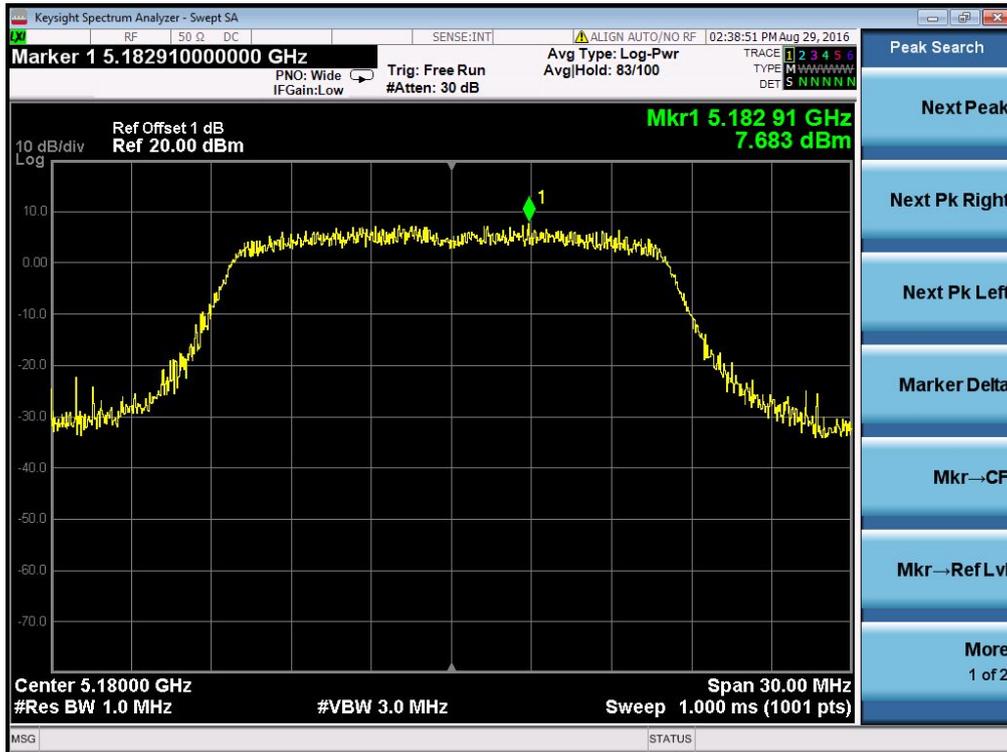
Antenna 0 - 802.11ac-VHT40 - 5795MHz



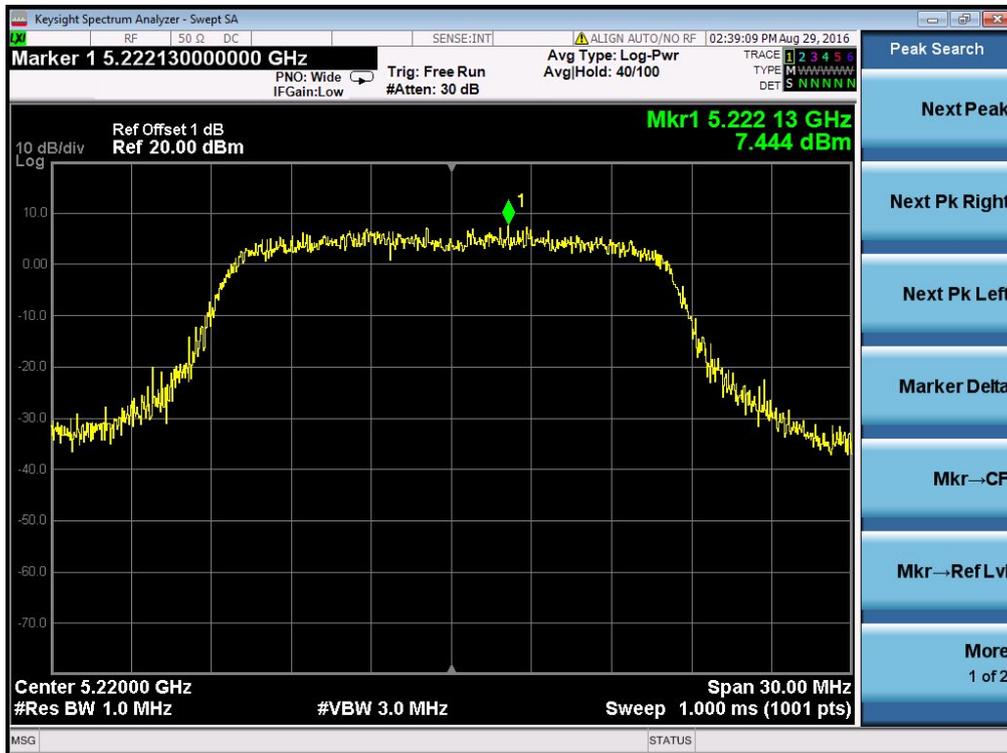
Antenna 0 - 802.11ac-VHT80 - 5775MHz



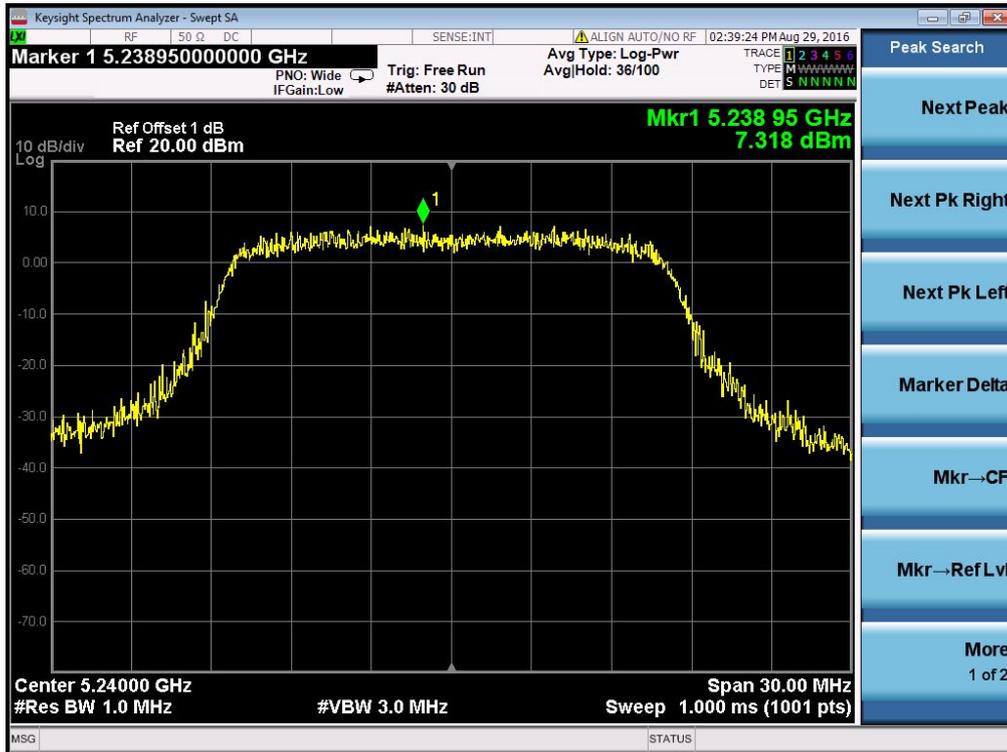
## Antenna 1 - 802.11a – 5180MHz



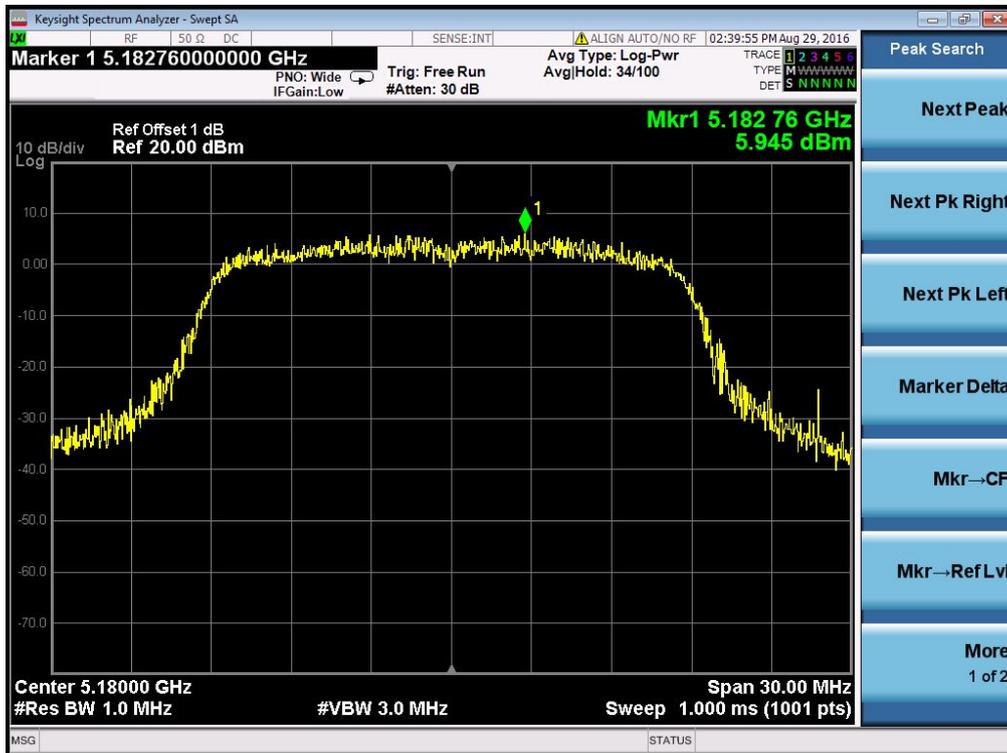
## Antenna 1 - 802.11a – 5220MHz



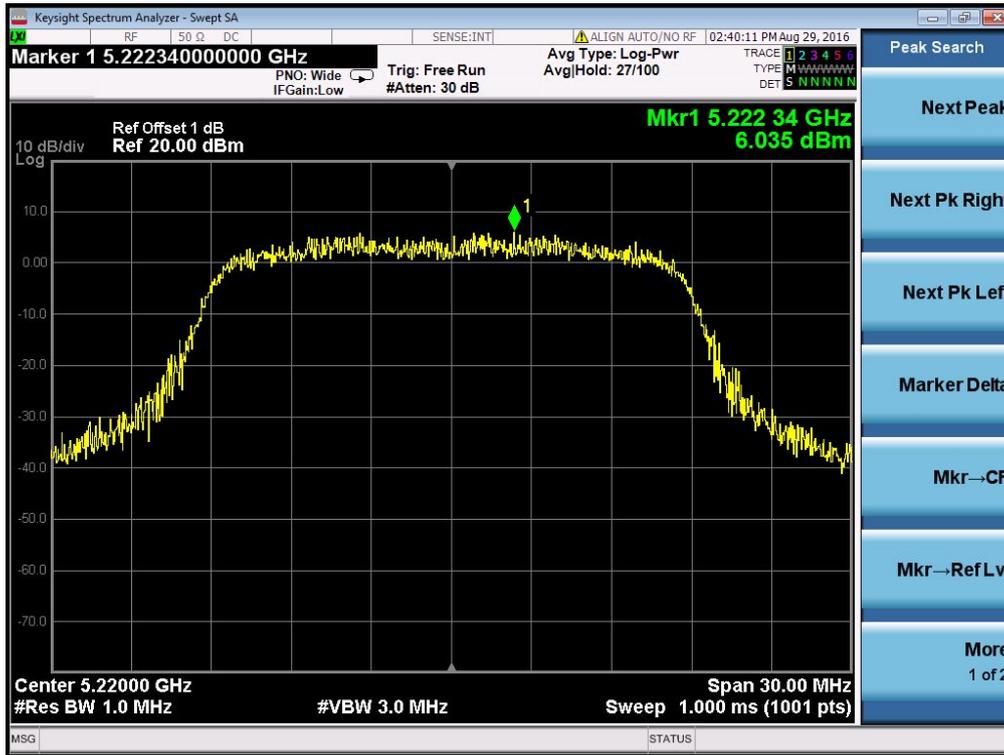
## Antenna 1 - 802.11a – 5240MHz



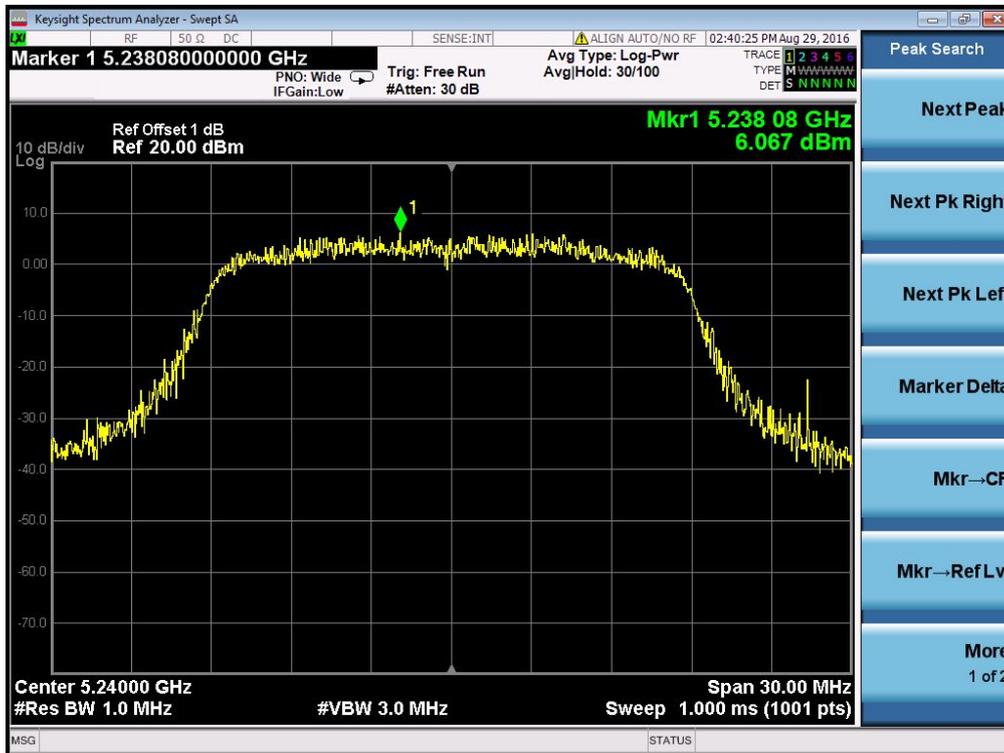
## Antenna 1 - 802.11n-HT20 – 5180MHz



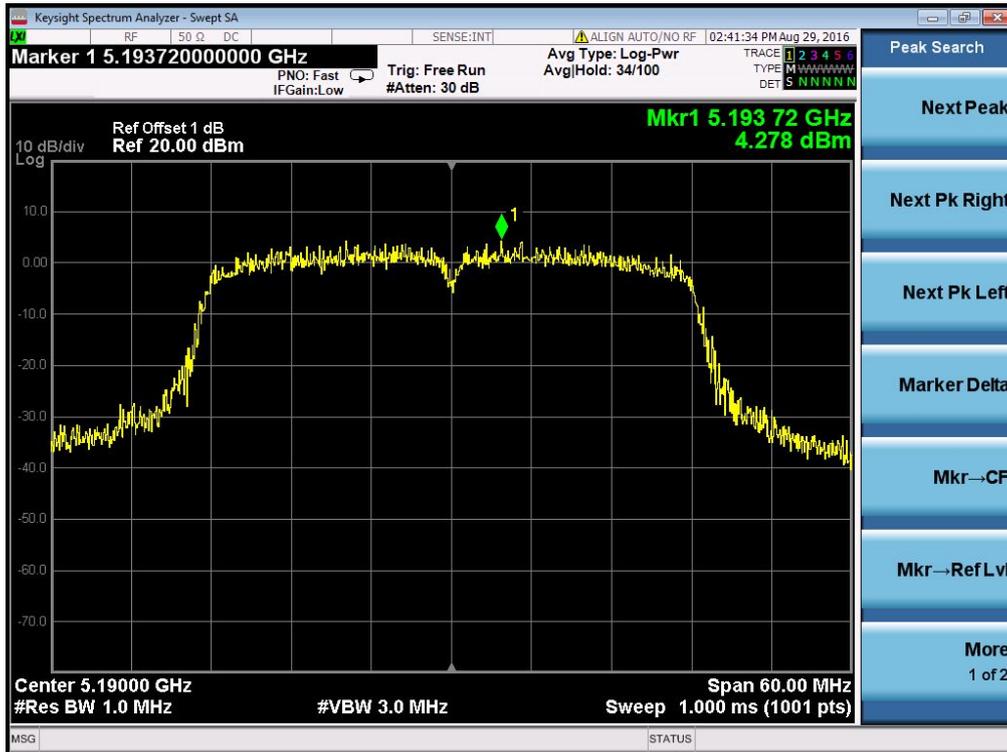
Antenna 1 - 802.11n-HT20 – 5220MHz



Antenna 1 - 802.11n-HT20 – 5240MHz



## Antenna 1 - 802.11n-HT40 – 5190MHz

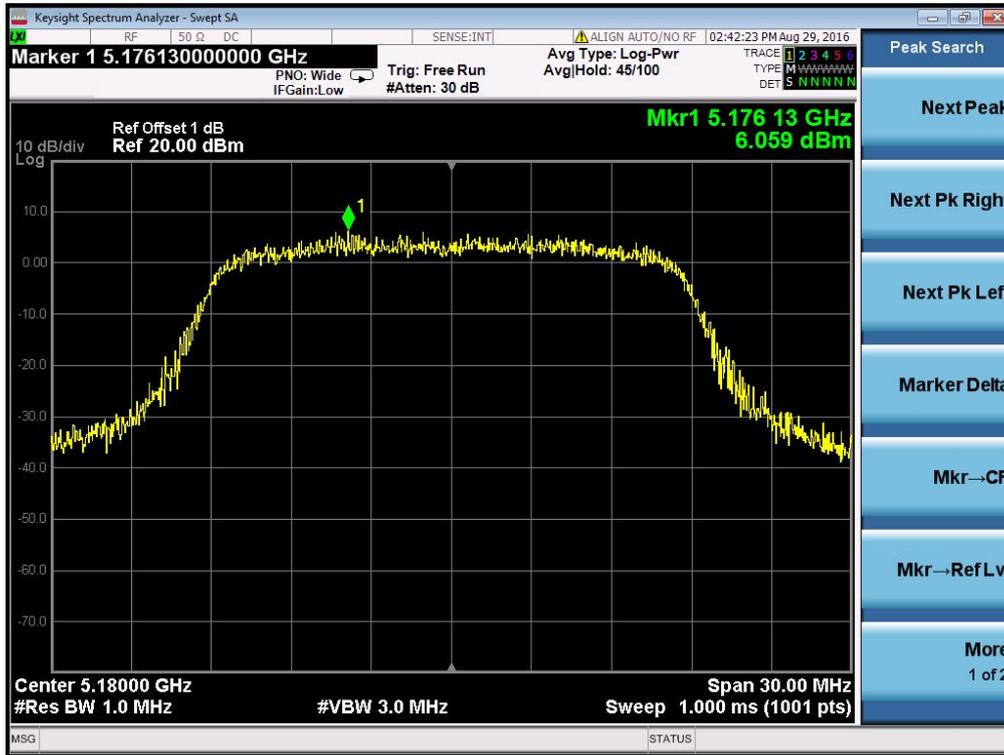


## Antenna 1 - 802.11n-HT40 – 5230MHz

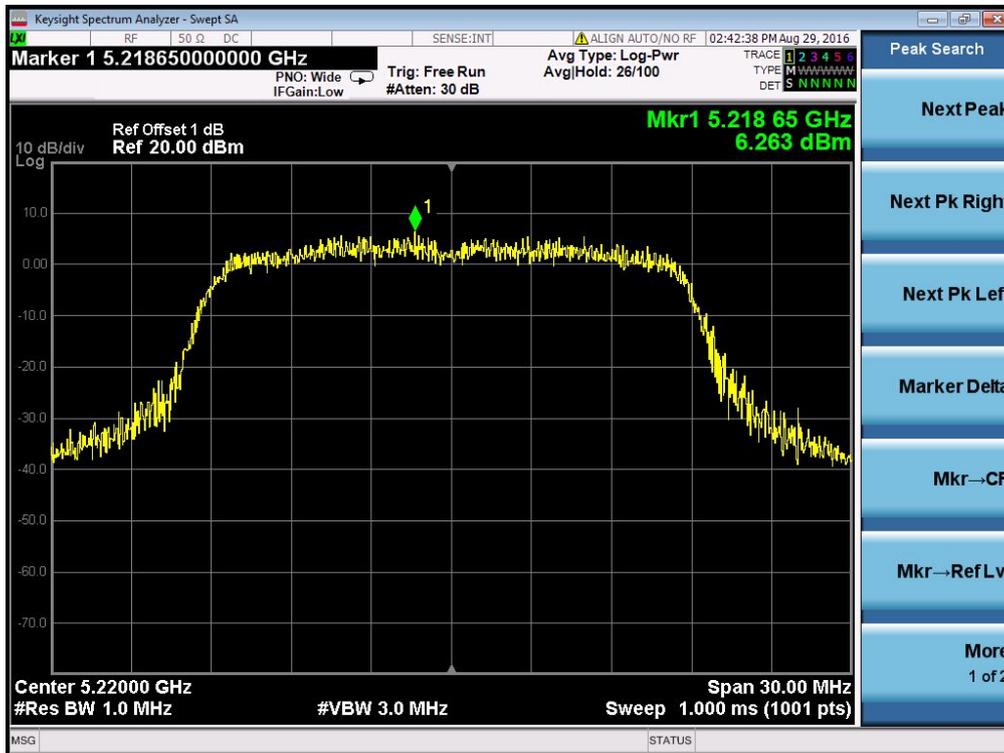




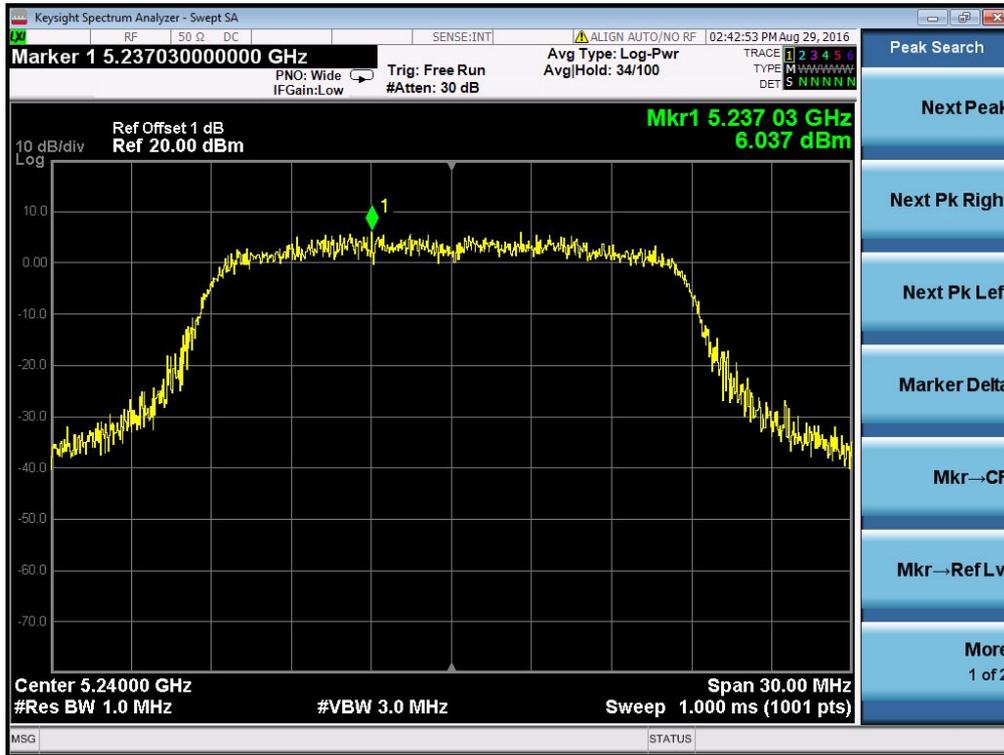
### Antenna 1 - 802.11ac-VHT20 - 5180MHz



### Antenna 1 - 802.11ac-VHT20 - 5220MHz



Antenna 1 - 802.11ac-VHT20 - 5240MHz



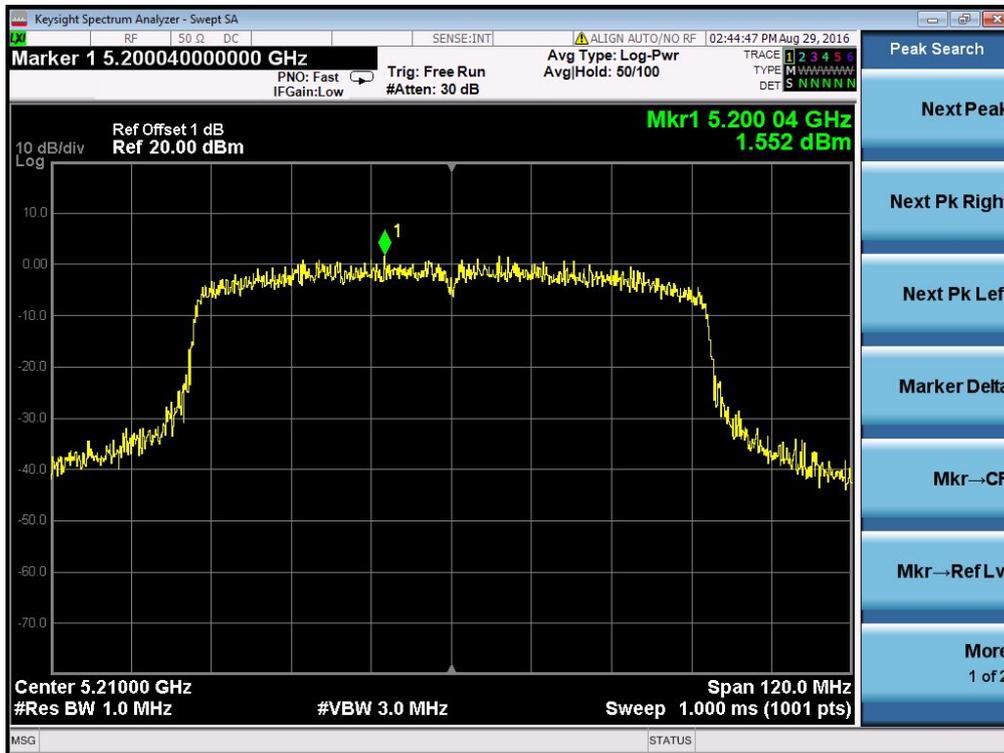
Antenna 1 - 802.11ac-VHT40 - 5190MHz



Antenna 1 - 802.11ac-VHT40 - 5230MHz



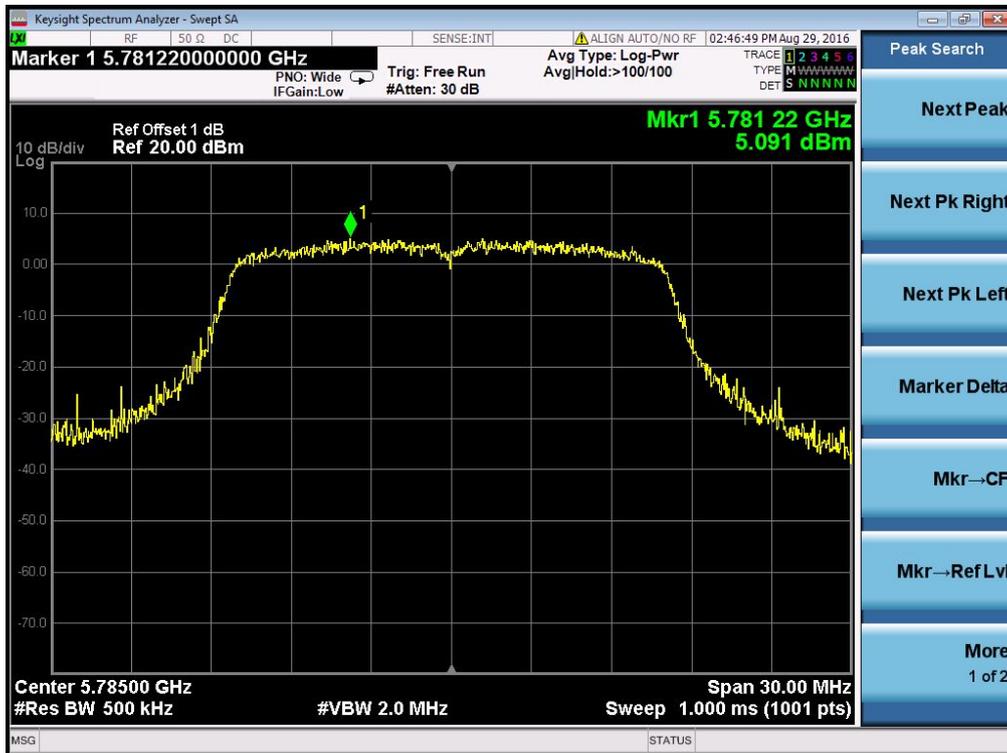
Antenna 1 - 802.11ac-VHT80 - 5210MHz



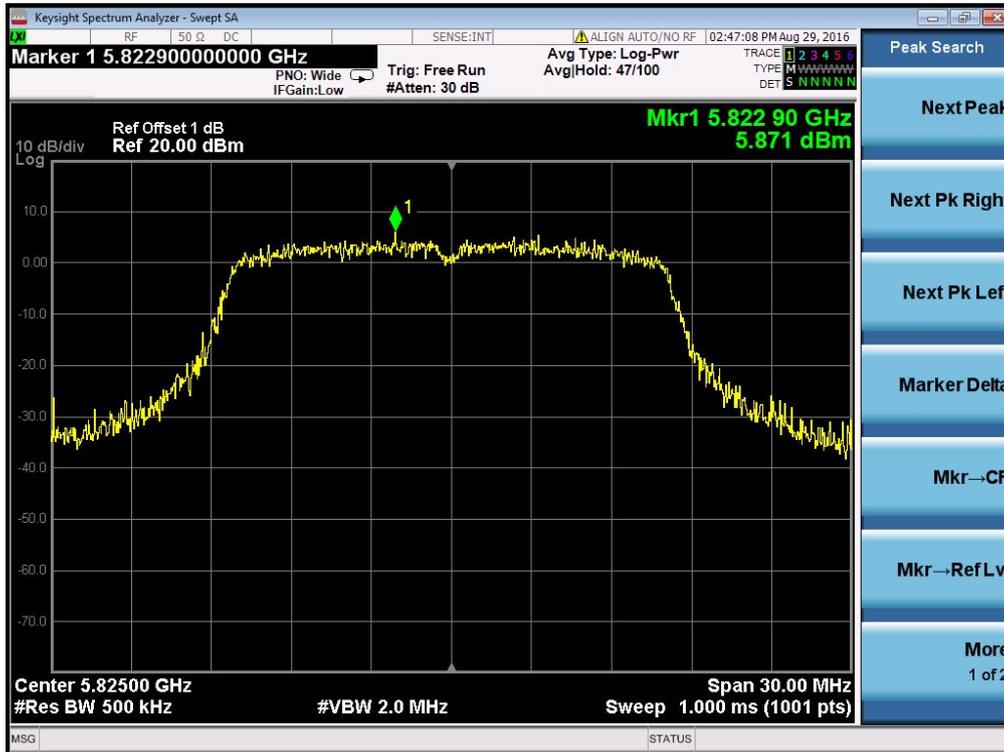
## Antenna 1 - 802.11a - 5745MHz



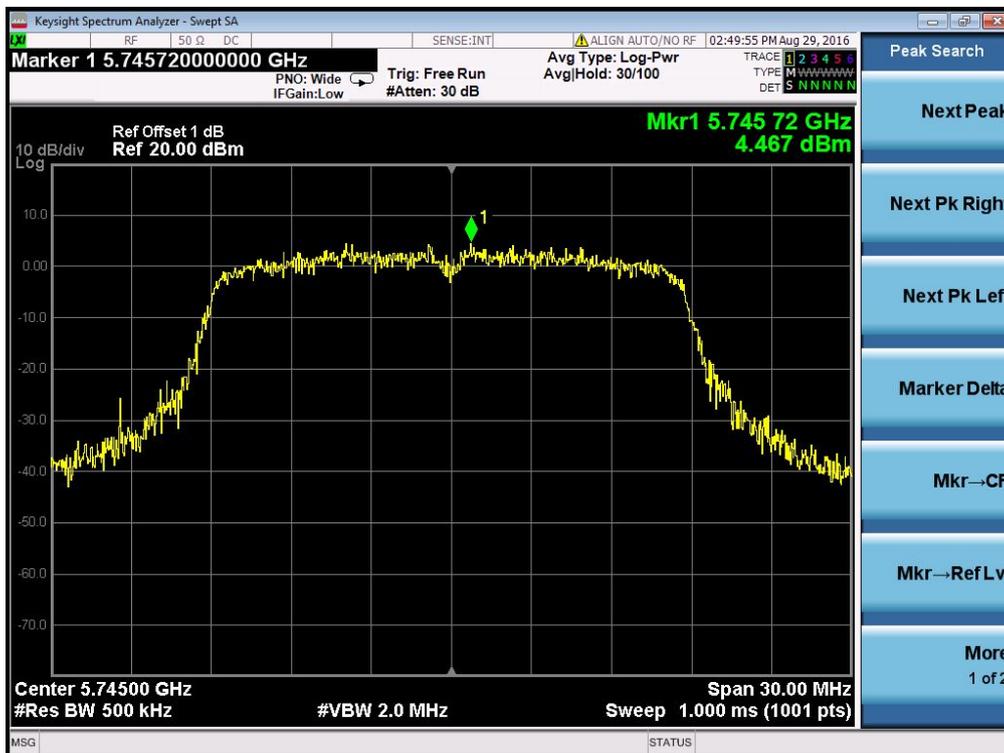
## Antenna 1 - 802.11a - 5785MHz



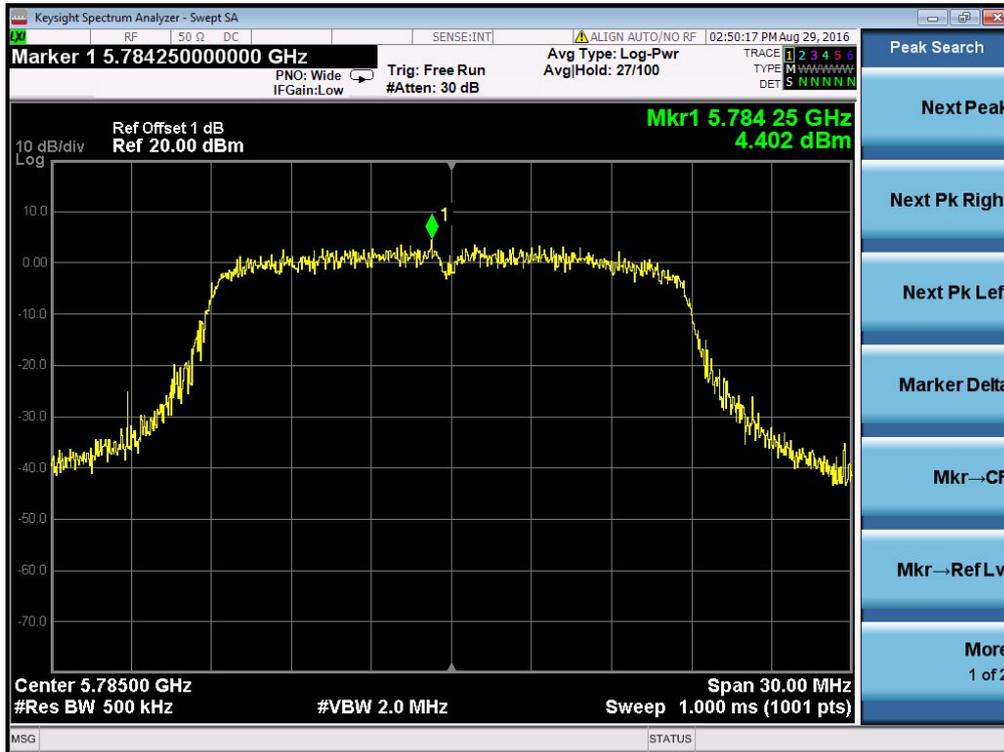
Antenna 1 - 802.11a – 5825MHz



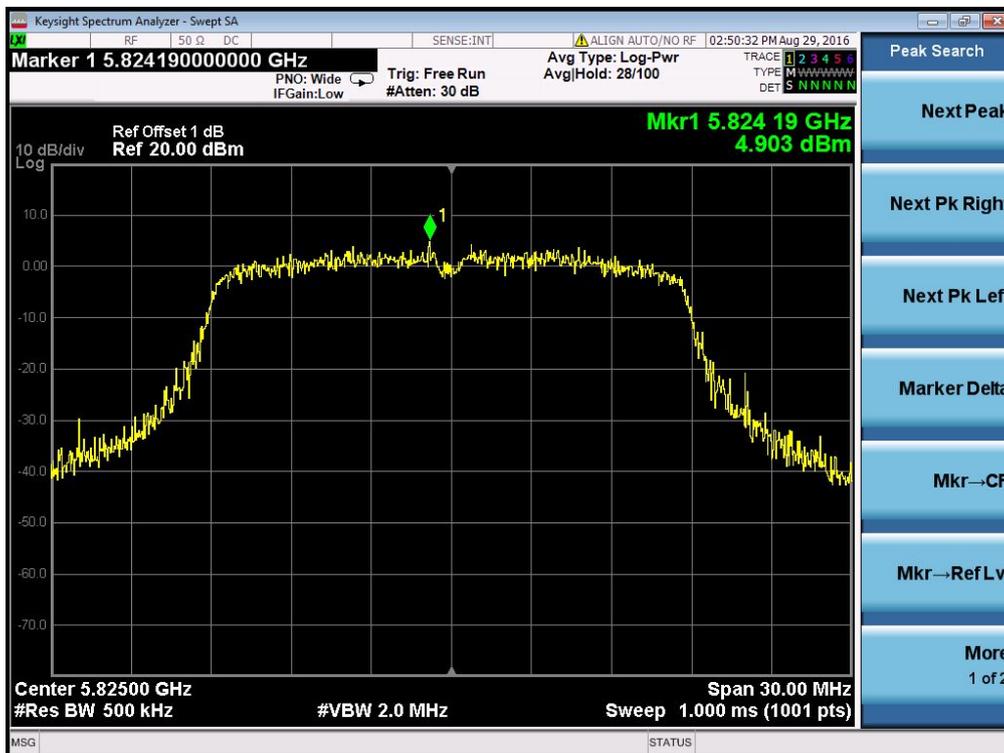
Antenna 1 - 802.11n-HT20 – 5745MHz



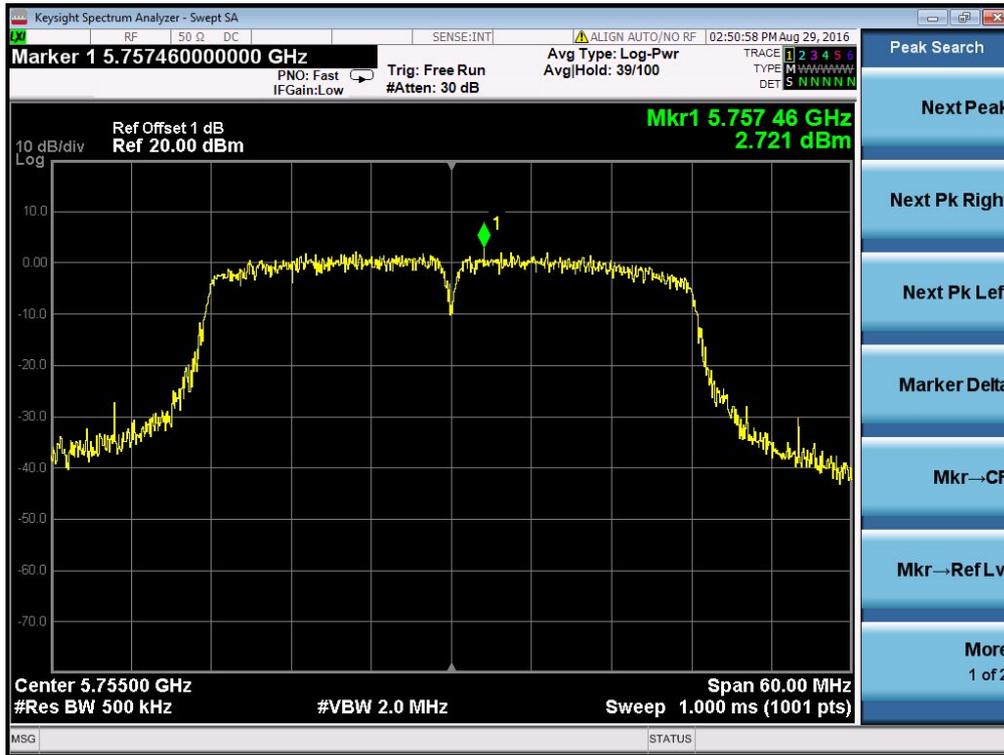
### Antenna 1 - 802.11n-HT20 – 5785MHz



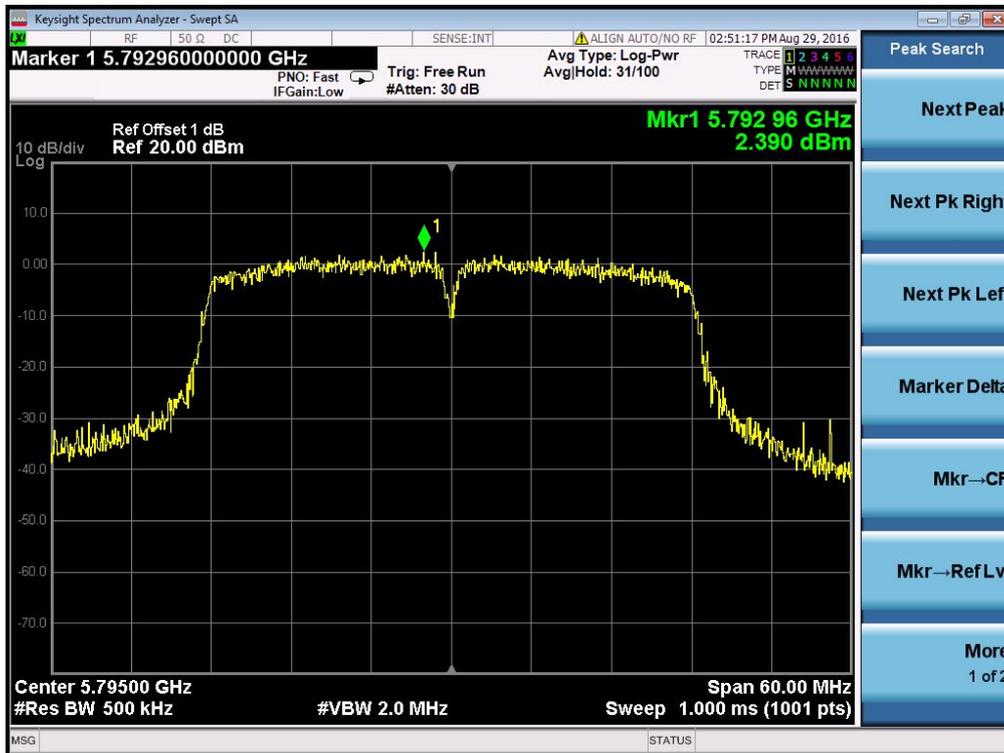
### Antenna 1 - 802.11n-HT20 – 5825MHz



Antenna 1 - 802.11n-HT40 - 5755MHz



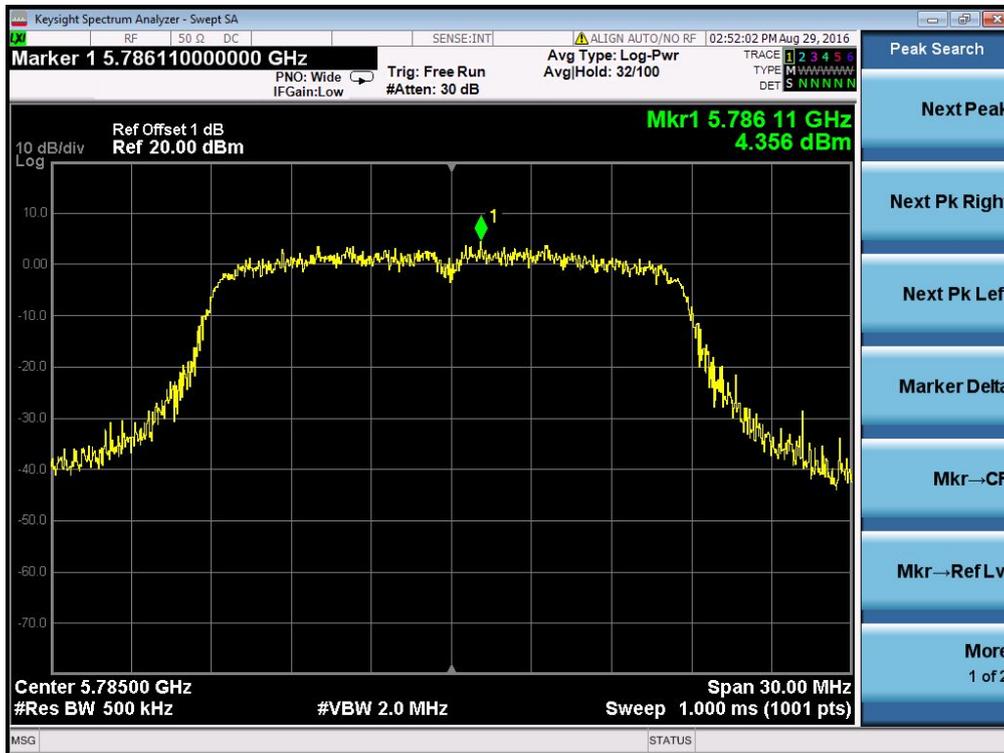
Antenna 1 - 802.11n-HT40 - 5795MHz



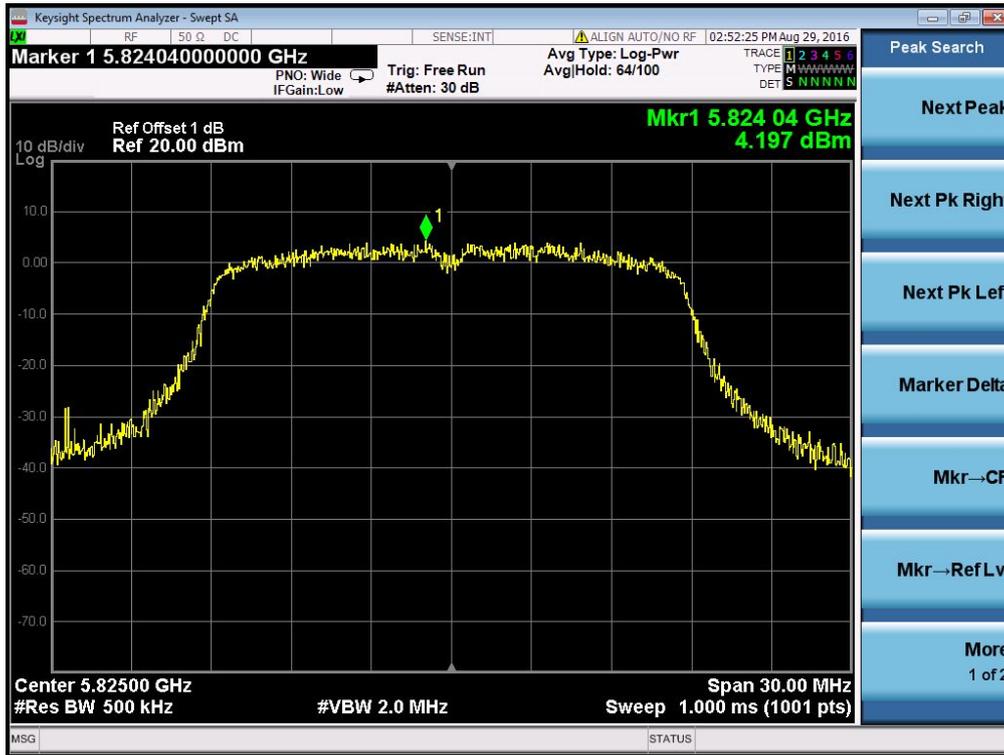
Antenna 1 - 802.11ac-VHT20 - 5745MHz



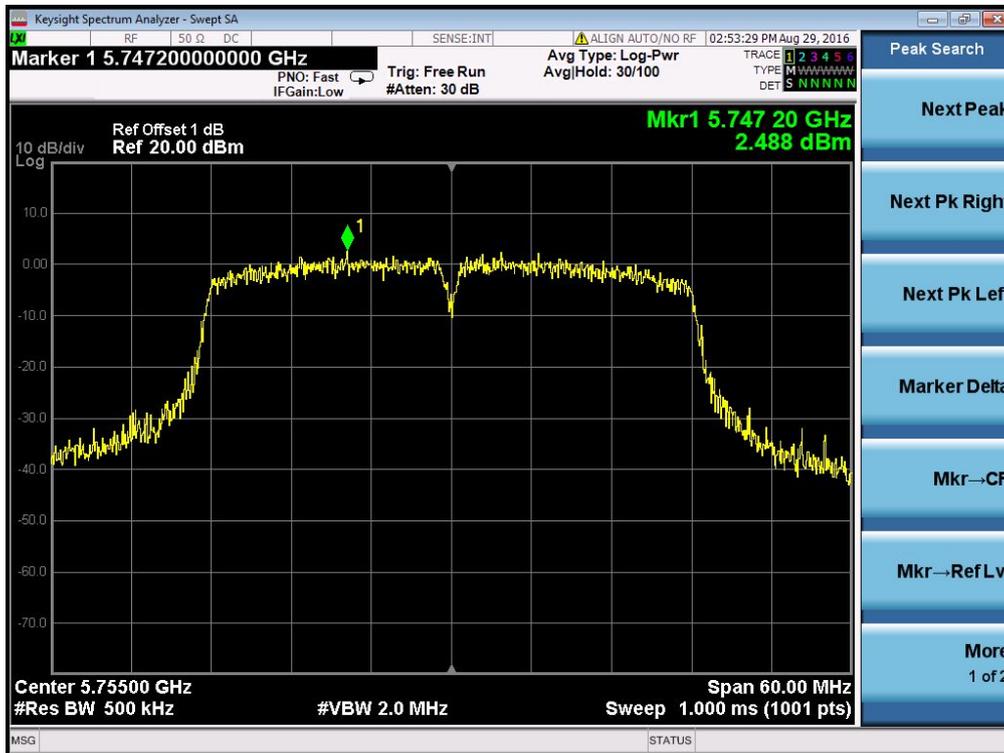
Antenna 1 - 802.11ac-VHT20 - 5785MHz



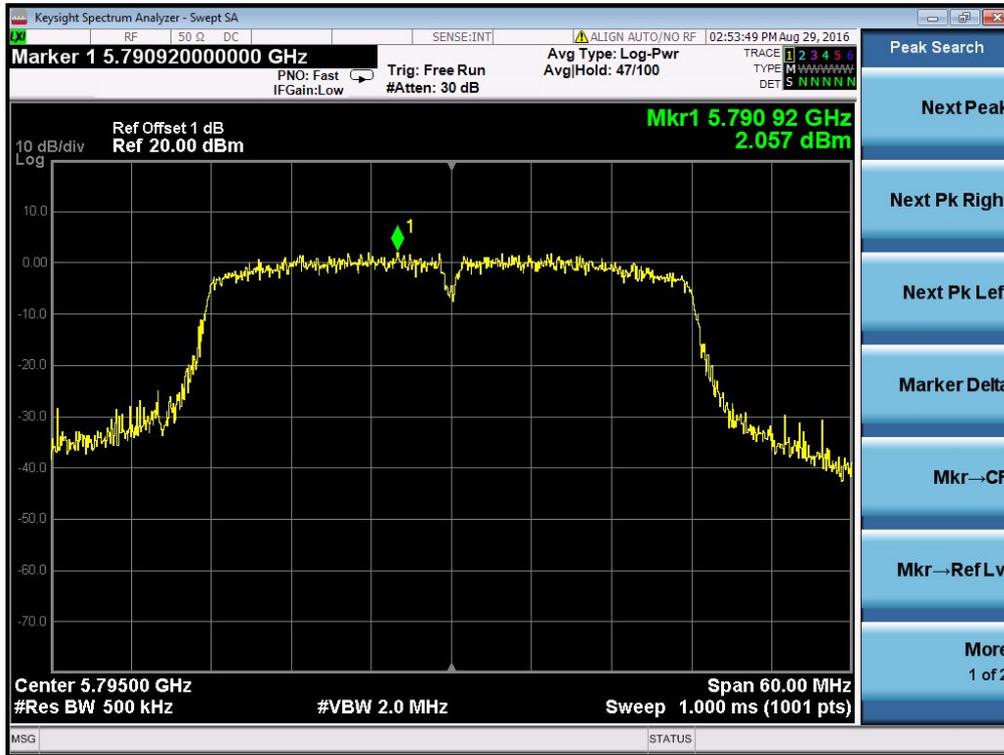
Antenna 1 - 802.11ac-VHT20 - 5825MHz



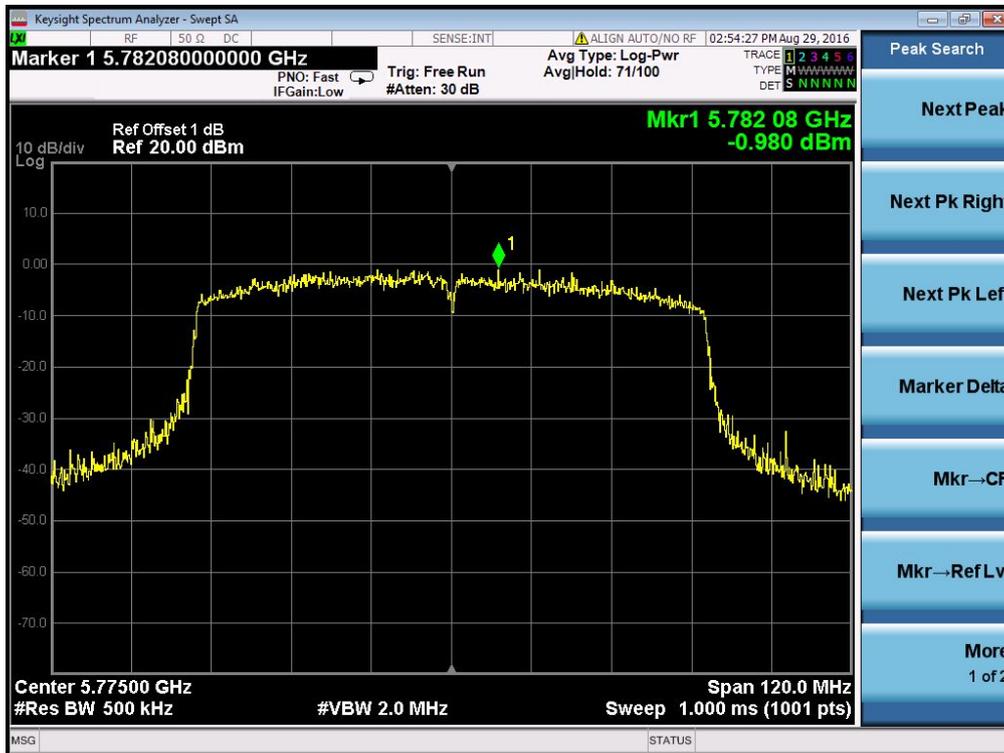
Antenna 1 - 802.11ac-VHT40 - 5755MHz



### Antenna 1 - 802.11ac-VHT40 - 5795MHz



### Antenna 1 - 802.11ac-VHT80 - 5775MHz



## 2.5. Radiated Band Edge and Spurious Emission

### 2.5.1. Limit of Radiated Band Edges and Spurious Emission

Radiated emission which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Field Strength ( $\mu\text{V/m}$ )	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level ( $\mu\text{V/m}$ ).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

#### Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedures New Rules v01	Field Strength at 3m	
	PK:74(dB $\mu\text{V/m}$ )	AV:54 (dB $\mu\text{V/m}$ )
Applicable To	EIRP Limit	EQUIVALENT FIELD STRENGTH AT 3m
15.407(b)-5150~5250MHz	PK: -27(dBm/MHz)	PK:68.2(dB $\mu\text{V/m}$ )
15.407(b)-5250~5350MHz		
15.407(b)-5470~5725MHz		
15.407(b)-5725~5850MHz	PK:-27 (dBm/MHz) <sup>note1</sup> PK:-17 (dBm/MHz) <sup>note2</sup>	PK: 68.2(dB $\mu\text{V/m}$ ) <sup>note1</sup> PK: 78.2(dB $\mu\text{V/m}$ ) <sup>note2</sup>

**Note:**

1. Beyond 10MHz of the band edge
2. Within 10MHz of the band edge

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

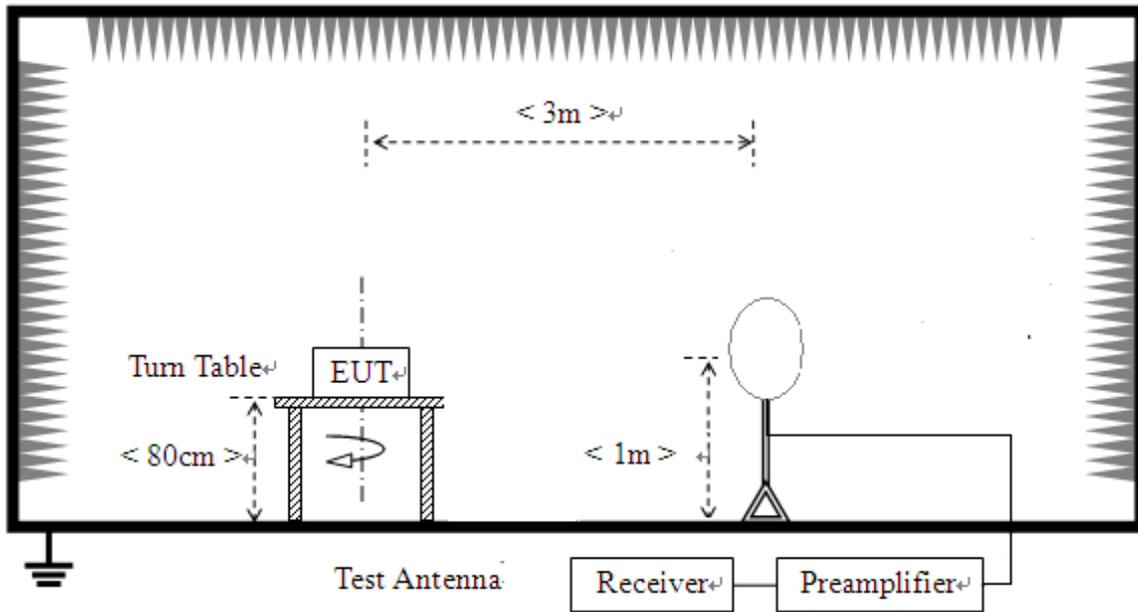
$$E = \frac{1000000 \sqrt{30P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts).}$$

**2.5.2. Measuring Instruments**

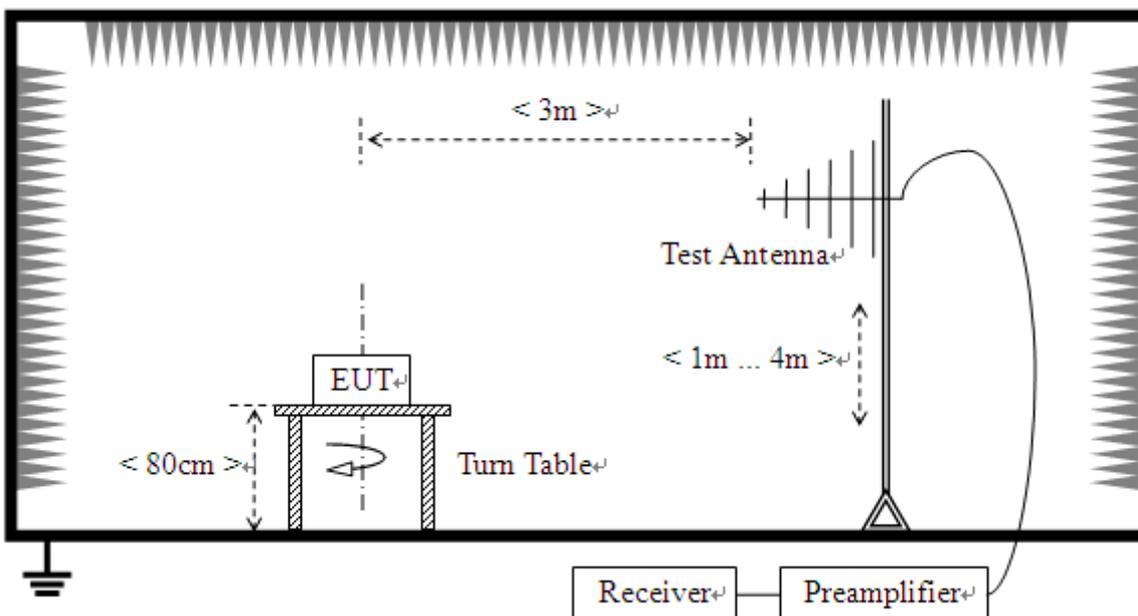
The measuring equipment is listed in the section 3 of this test report.

**2.5.3. Test Setup**

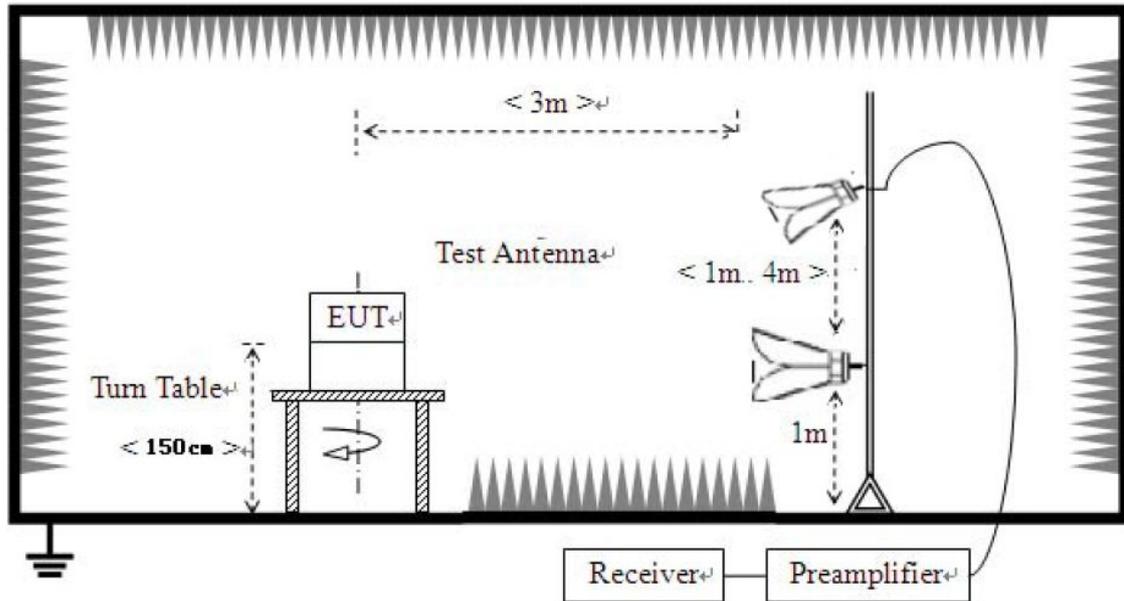
**For radiated emissions from 9 kHz to 30 MHz**



**For radiated emissions from 30MHz to 1GHz**



### For radiated emissions above 1GHz



#### 2.5.4. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8 meters for below 1GHz and 1.5 meters for above 1GHz on the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
6. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

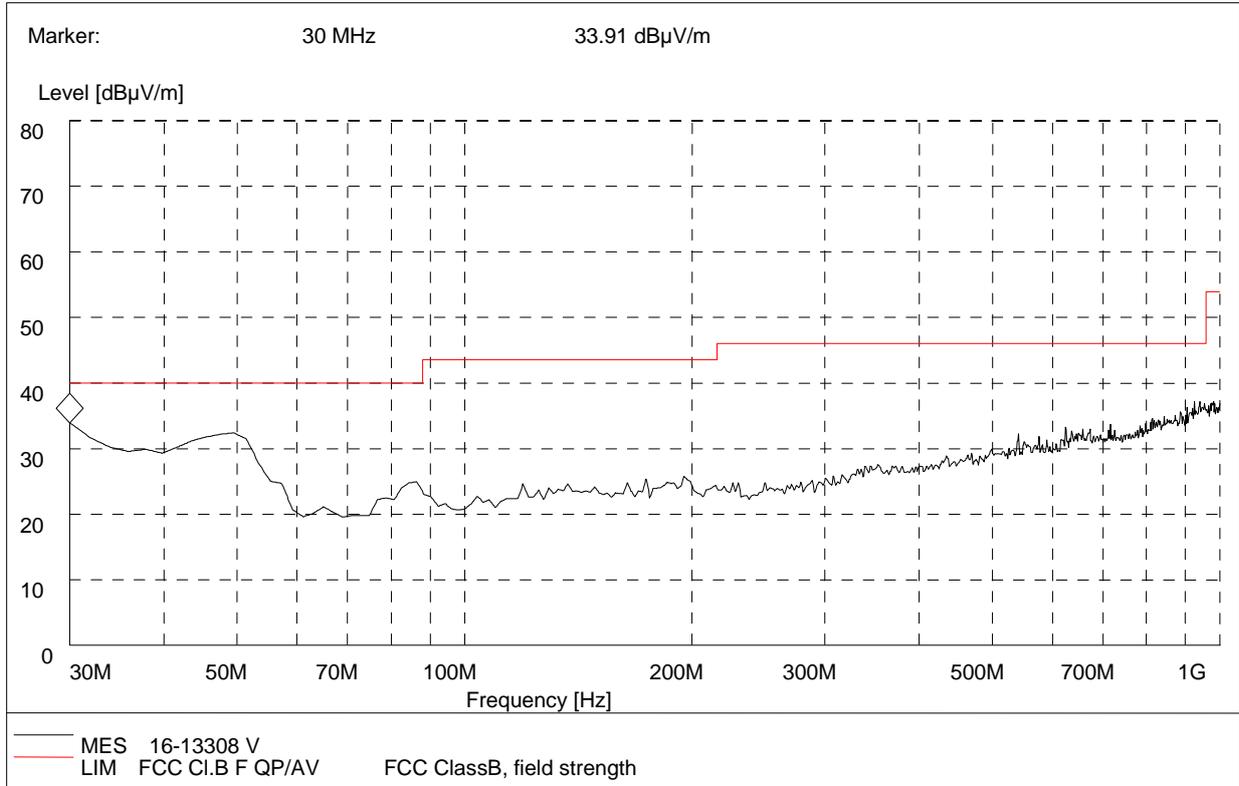
**Note:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ( $10 \log(1/\text{duty cycle})$ ).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

**2.5.5. Test Results of Radiated Band Edge and Spurious Emission****For 9 kHz to 30MHz**

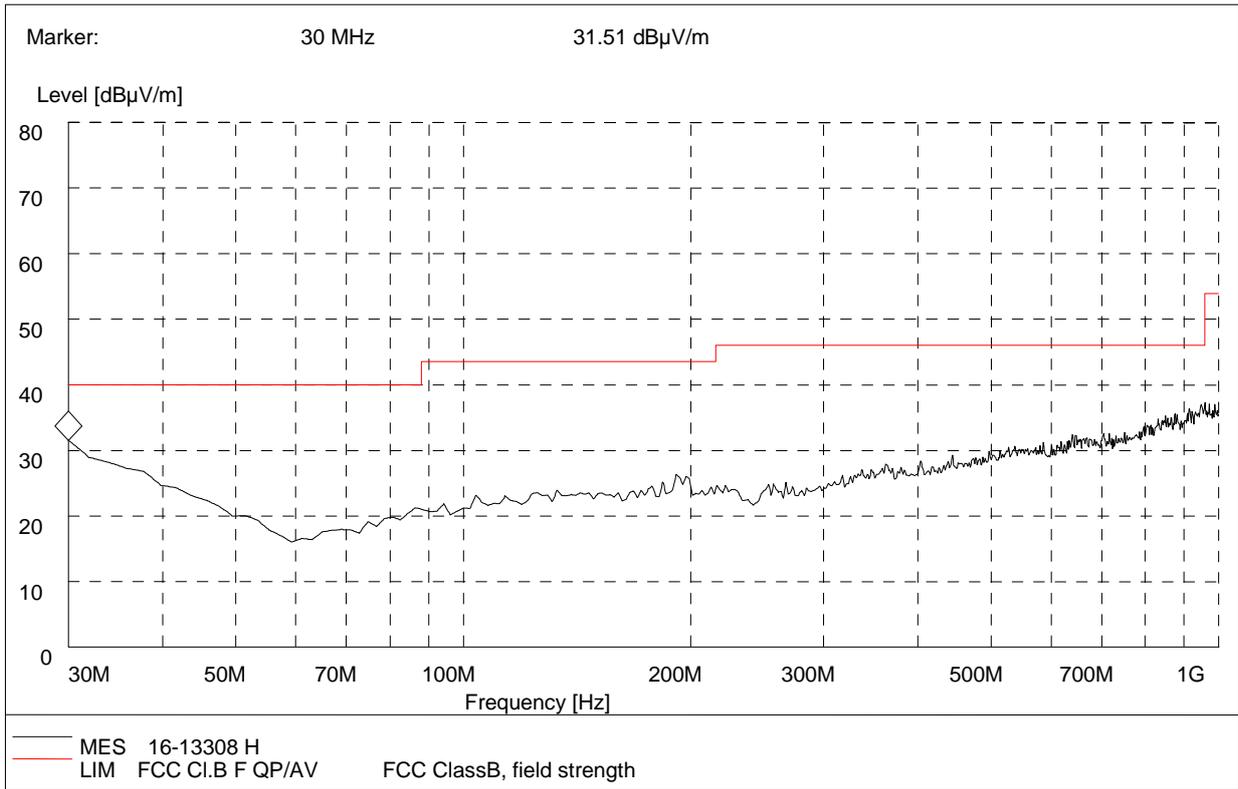
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

**For 30MHz to 1000 MHz**



**30MHz to 1GHz, Antenna Vertical**

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBµV/m)	Antenna	Verdict
30.000	33.91	120.000	100.0	40.00	Vertical	Pass



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Antenna	Verdict
30.000	31.51	120.000	100.0	40.00	Horizontal	Pass

**For 1GHz to 40 GHz**
**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a\_5180MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	61.40	PK	74.00	-12.60	1.48 H	290	59.40	2.00
2	5150.00	44.80	AV	54.00	-9.20	1.48 H	290	42.80	2.00
3	*5180.00	102.60	PK	/	/	1.48 H	290	62.60	40.00
4	*5180.00	91.80	AV	/	/	1.48 H	290	51.80	40.00
5	#10360.00	61.00	PK	74.00	-13.00	1.52 H	64	46.00	15.00
6	#10360.00	48.60	AV	54.00	-5.4	1.52 H	64	33.60	15.00

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a\_5180MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	57.90	PK	74.00	-16.10	1.50 V	269	55.90	2.00
2	5150.00	44.80	AV	54.00	-9.20	1.50 V	269	42.80	2.00
3	*5180.00	96.70	PK	/	/	1.50 V	269	56.70	40.00
4	*5180.00	86.20	AV	/	/	1.50 V	269	46.20	40.00
5	#10360.00	60.20	PK	74.00	-13.80	1.48 V	94	45.20	15.00
6	#10360.00	47.20	AV	54.00	-6.80	1.48 V	94	32.20	15.00

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a\_5220MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5220.00	101.80	PK	/	/	1.52 H	210	61.70	40.10
2	*5220.00	91.00	AV	/	/	1.52 H	210	50.90	40.10
3	#10440.00	62.00	PK	74.00	-12.00	1.52 H	69	47.00	15.00
4	#10440.00	48.60	AV	54.00	-5.40	1.52 H	69	33.60	15.00

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a\_5220MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5220.00	99.60	PK	/	/	1.49 V	112	59.50	40.10
2	*5220.00	88.90	AV	/	/	1.49 V	112	48.80	40.10
3	#10440.00	61.50	PK	74.00	-12.50	1.51 V	254	46.50	15.00
4	#10440.00	48.00	AV	54.00	-6.00	1.51 V	254	33.00	15.00

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a\_5240MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5240.00	101.60	PK	/	/	1.55 H	215	61.50	40.10
2	*5240.00	91.10	AV	/	/	1.55 H	215	51.00	40.10
3	5350.00	56.40	PK	74.00	-17.60	1.55 H	215	54.40	2.00
4	5350.00	43.90	AV	54.00	-10.10	1.55 H	215	41.90	2.00
5	#10480.00	61.10	PK	74.00	-12.90	1.55 H	64	46.00	15.10
6	#10480.00	47.60	AV	54.00	-6.40	1.55 H	64	32.50	15.10

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a\_5240MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5240.00	96.70	PK	/	/	1.55 V	177	56.60	40.10
2	*5240.00	89.20	AV	/	/	1.55 V	177	49.10	40.10
3	5350.00	57.20	PK	74.00	-16.80	1.55 V	177	55.20	2.00
4	5350.00	43.80	AV	54.00	-10.20	1.55 V	177	41.80	2.00
5	#10480.00	60.60	PK	74.00	-13.40	1.55 V	58	45.50	15.10
6	#10480.00	47.60	AV	54.00	-6.40	1.55 V	58	32.60	15.10

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a\_5745MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	#5714.90	63.70	PK	74.00	-10.30	1.50 H	330	61.10	2.60
2	#5714.90	46.60	AV	54.00	-7.40	1.50 H	330	44.00	2.60
3	#5722.90	72.30	PK	78.20	-5.9	1.50 H	330	69.70	2.60
4	#5725.00	59.80	PK	78.20	-18.4	1.50 H	330	57.20	2.60
5	*5745.00	98.60	PK	/	/	1.50 H	330	57.60	41.00
6	*5745.00	88.20	AV	/	/	1.50 H	330	47.20	41.00
7	11490.00	61.90	PK	74.00	-12.1	1.52 H	64	46.00	15.90
8	11490.00	49.40	AV	54.00	-4.6	1.52 H	64	33.50	15.90

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a\_5745MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	#5714.90	62.90	PK	74.00	-11.10	1.50 H	269	60.30	2.60
2	#5714.90	45.90	AV	54.00	-8.10	1.50 H	269	43.30	2.60
3	#5722.90	71.20	PK	78.20	-7.0	1.50 H	269	68.60	2.60
4	#5725.00	59.60	PK	78.20	-18.60	1.50 H	269	57.00	2.60
5	*5745.00	97.50	PK	/	/	1.50 H	269	56.50	41.00
6	*5745.00	87.30	AV	/	/	1.50 H	269	46.30	41.00
7	11490.00	61.40	PK	74.00	-12.60	1.52 H	64	45.50	15.90
8	11490.00	47.20	AV	54.00	-6.80	1.52 H	64	31.30	15.90

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a\_5785MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5785.00	98.20	PK	/	/	1.52 H	329	57.10	41.10
2	*5785.00	87.40	AV	/	/	1.52 H	329	46.30	41.10
3	11570.00	62.10	PK	74.00	-11.90	1.52 H	94	46.50	15.60
4	11570.00	48.20	AV	54.00	-5.80	1.52 H	94	32.60	15.60

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a\_5785MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5785.00	98.40	PK	/	/	1.52 V	280	57.30	41.10
2	*5785.00	88.00	AV	/	/	1.52 V	280	46.90	41.10
3	11570.00	61.20	PK	74.00	-12.80	1.52 V	34	45.60	15.60
4	11570.00	48.10	AV	54.00	-5.90	1.52 V	34	32.50	15.60

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a\_5825MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5825.00	98.60	PK	/	/	1.55 H	215	57.50	41.10
2	*5825.00	88.40	AV	/	/	1.55 H	215	47.30	41.10
3	#5850.00	53.70	PK	78.2	-24.50	1.55 H	215	50.70	3.00
4	#5852.10	68.10	PK	78.2	-10.10	1.55 H	215	65.10	3.00
5	#5860.10	63.90	PK	74.00	-10.10	1.55 H	215	60.90	3.00
6	#5860.10	46.20	AV	54.00	-7.80	1.55 H	215	43.20	3.00
7	11650.00	61.30	PK	74.00	-12.70	1.50 H	84	45.70	15.60
8	11650.00	48.80	AV	54.00	-5.2	1.50 H	84	33.20	15.60

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a\_5825MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5825.00	98.60	PK	/	/	1.50 V	280	57.50	41.10
2	*5825.00	88.00	AV	/	/	1.50 V	280	46.90	41.10
3	#5850.00	51.60	PK	78.20	-26.60	1.50 V	280	48.60	3.00
4	#5852.10	68.40	PK	78.20	-9.80	1.50 V	280	65.40	3.00
5	#5860.10	63.50	PK	74.00	-10.50	1.50 V	280	60.50	3.00
6	#5860.10	46.40	AV	54.00	-7.60	1.50 V	280	43.40	3.00
7	11650.00	61.50	PK	74.00	-12.50	1.52 V	64	45.90	15.60
8	11650.00	49.00	AV	54.00	-5.00	1.52 V	64	33.40	15.60

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20\_5180MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	57.60	PK	74.00	-16.40	1.48 H	212	55.60	2.00
2	5150.00	44.10	AV	54.00	-9.90	1.48 H	212	42.10	2.00
3	*5180.00	97.30	PK	/	/	1.48 H	212	57.30	40.00
4	*5180.00	87.40	AV	/	/	1.48 H	212	47.40	40.00
5	#10360.00	62.50	PK	74.00	-11.50	1.52 H	100	47.50	15.00
6	#10360.00	49.00	AV	54.00	-5.0	1.52 H	100	34.00	15.00

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20\_5180MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	57.90	PK	74.00	-16.10	1.50 V	269	56.00	2.00
2	5150.00	44.80	AV	54.00	-9.20	1.50 V	269	42.50	2.00
3	*5180.00	96.70	PK	/	/	1.50 V	269	54.60	40.00
4	*5180.00	86.20	AV	/	/	1.50 V	269	44.30	40.00
5	#10360.00	60.20	PK	74.00	-13.80	1.58 V	94	47.20	15.00
6	#10360.00	47.20	AV	54.00	-6.80	1.58 V	94	33.80	15.00

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20\_5220MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5220.00	95.90	PK	/	/	1.52 H	340	55.80	40.10
2	*5220.00	86.60	AV	/	/	1.52 H	340	46.50	40.10
3	#10440.00	59.70	PK	74.00	-14.30	1.52 H	62	44.70	15.00
4	#10440.00	46.40	AV	54.00	-7.60	1.52 H	62	31.40	15.00

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20\_5220MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*2437.00	93.80	PK	/	/	1.49 V	112	53.70	40.10
2	*2437.00	83.80	AV	/	/	1.49 V	112	43.70	40.10
3	#4874.00	60.00	PK	74.00	-14.00	1.51 V	254	45.00	15.00
4	#4874.00	46.40	AV	54.00	-7.60	1.51 V	254	31.40	15.00



**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20\_5240MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5240.00	94.80	PK	/	/	1.55 H	244	54.70	40.10
2	*5240.00	84.90	AV	/	/	1.55 H	244	44.80	40.10
3	5350.00	58.40	PK	74.00	-15.60	1.55 H	244	56.40	2.00
4	5350.00	44.10	AV	54.00	-9.90	1.55 H	244	42.10	2.00
5	#10480.00	61.80	PK	74.00	-12.20	1.55 H	236	46.70	15.10
6	#10480.00	48.10	AV	54.00	-5.90	1.55 H	236	33.00	15.10

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20\_5240MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5240.00	93.10	PK	/	/	1.55 V	280	53.00	40.10
2	*5240.00	82.50	AV	/	/	1.55 V	280	42.40	40.10
3	5350.00	58.30	PK	74.00	-15.70	1.55 V	280	56.30	2.00
4	5350.00	44.20	AV	54.00	-9.80	1.55 V	280	42.20	2.00
5	#10480.00	62.00	PK	74.00	-12.00	1.50 V	120	46.90	15.10
6	#10480.00	48.00	AV	54.00	-6.00	1.50 V	120	32.90	15.10

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20\_5745MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	#5714.90	58.20	PK	74.00	-15.80	1.50 H	108	55.60	2.60
2	#5714.90	44.70	AV	54.00	-9.30	1.50 H	108	42.10	2.60
3	#5722.90	67.70	PK	78.20	-10.50	1.50 H	108	65.10	2.60
4	#5725.00	48.90	PK	78.20	-29.30	1.50 H	108	46.30	2.60
5	*5745.00	96.80	PK	/	/	1.50 H	108	55.80	41.00
6	*5745.00	85.30	AV	/	/	1.50 H	108	44.30	41.00
7	11490.00	61.90	PK	74.00	-12.10	1.52 H	48	46.00	15.90
8	11490.00	48.50	AV	54.00	-5.50	1.52 H	48	32.60	15.90

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20\_5745MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	#5714.90	59.30	PK	74.00	-14.70	1.0 H	278	56.70	2.60
2	#5714.90	44.70	AV	54.00	-9.30	1.50 H	278	42.10	2.60
3	#5722.90	60.60	PK	78.20	-17.60	1.50 H	278	58.00	2.60
4	#5725.00	45.90	PK	78.20	-32.30	1.50 H	278	43.30	2.60
5	*5745.00	94.00	PK	/	/	1.50 H	278	53.00	41.00
6	*5745.00	82.70	AV	/	/	1.50 H	278	41.70	41.00
7	11490.00	61.10	PK	74.00	-12.90	1.52 H	24	45.20	15.90
8	11490.00	48.10	AV	54.00	-5.90	1.52 H	24	32.20	15.90

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20\_5785MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5785.00	93.10	PK	/	/	1.52 H	70	52.00	41.10
2	*5785.00	82.80	AV	/	/	1.52 H	70	41.70	41.10
3	11570.00	60.90	PK	74.00	-13.10	1.52 H	94	45.30	15.60
4	11570.00	47.80	AV	54.00	-6.20	1.52 H	94	32.20	15.60

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20\_5785MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5785.00	93.60	PK	/	/	1.52 V	280	52.50	41.10
2	*5785.00	82.70	AV	/	/	1.52 V	280	41.60	41.10
3	11570.00	60.90	PK	74.00	-13.10	1.52 V	34	45.30	15.60
4	11570.00	47.80	AV	54.00	-6.20	1.52 V	34	32.20	15.60



**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20\_5825MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5825.00	94.10	PK	/	/	1.55 H	72	53.00	41.10
2	*5825.00	83.70	AV	/	/	1.55 H	72	42.60	41.10
3	#5850.00	44.30	PK	78.2	-33.90	1.55 H	72	41.30	3.00
4	#5852.10	59.00	PK	78.2	-19.20	1.55 H	72	56.00	3.00
5	#5860.10	58.80	PK	74.00	-15.20	1.55 H	72	55.80	3.00
6	#5860.10	44.80	AV	54.00	-9.20	1.55 H	72	41.80	3.00
7	11650.00	62.80	PK	74.00	-11.20	1.50 H	65	47.20	15.60
8	11650.00	48.00	AV	54.00	-6.00	1.50 H	65	32.40	15.60

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20\_5825MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5825.00	93.80	PK	/	/	1.50 V	280	52.70	41.10
2	*5825.00	83.40	AV	/	/	1.50 V	280	42.30	41.10
3	#5850.00	44.20	PK	78.20	-34.00	1.50 V	280	41.20	3.00
4	#5852.10	58.70	PK	78.20	-19.50	1.50 V	280	55.70	3.00
5	#5860.10	58.50	PK	74.00	-15.50	1.50 V	280	55.50	3.00
6	#5860.10	45.10	AV	54.00	-8.90	1.50 V	280	42.10	3.00
7	11650.00	60.10	PK	74.00	-13.90	1.52 V	332	44.50	15.60
8	11650.00	46.90	AV	54.00	-7.10	1.52 V	332	31.30	15.60

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40\_5190MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	59.00	PK	74.00	-15.00	1.50 H	341	57.00	2.00
2	5150.00	44.60	AV	54.00	-9.40	1.50 H	341	42.60	2.00
3	*5190.00	93.60	PK	/	/	1.50 H	341	53.60	40.00
4	*5190.00	83.00	AV	/	/	1.50 H	341	43.00	40.00
5	#10380.00	61.60	PK	74.00	-12.40	1.52 H	66	46.60	15.00
6	#10380.00	47.60	AV	54.00	-6.40	1.52 H	66	32.60	15.00

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40\_5190MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	56.70	PK	74.00	-17.30	1.50 V	275	54.70	2.00
2	5150.00	43.20	AV	54.00	-10.80	1.50 V	275	41.20	2.00
3	*5190.00	90.70	PK	/	/	1.50 V	275	50.70	40.00
4	*5190.00	80.30	AV	/	/	1.50 V	275	40.30	40.00
5	#10380.00	60.20	PK	74.00	-13.80	1.58 V	35	45.20	15.00
6	#10380.00	46.30	AV	54.00	-7.70	1.58 V	35	31.30	15.00

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40\_5230MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5230.00	93.40	PK	/	/	1.50 H	337	53.30	40.10
2	*5230.00	82.60	AV	/	/	1.50 H	337	42.50	40.10
3	5350.00	57.60	PK	74.00	-16.40	1.50 H	337	55.60	2.00
4	5350.00	44.50	AV	54.00	-9.50	1.50 H	337	42.50	2.00
5	#10460.00	61.50	PK	74.00	-12.50	1.52 H	84	46.50	15.00
6	#10460.00	48.20	AV	54.00	-5.80	1.52 H	84	33.20	15.00

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40\_5230MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5230.00	100.00	PK	/	/	1.50 V	275	59.90	40.10
2	*5230.00	89.30	AV	/	/	1.50 V	275	49.20	40.10
3	5350.00	56.30	PK	74.00	-17.70	1.50 V	275	54.30	2.00
4	5350.00	43.30	AV	54.00	-10.70	1.50 V	275	41.30	2.00
5	#10460.00	60.20	PK	74.00	-13.80	1.58 V	35	45.20	15.00
6	#10460.00	46.20	AV	54.00	-7.80	1.58 V	35	31.20	15.00



**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40\_5755MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	#5714.90	60.10	PK	74.00	-13.90	1.55 H	113	57.50	2.60
2	#5714.90	46.10	AV	54.00	-7.90	1.5 H	113	43.50	2.60
3	#5722.90	64.00	PK	78.2	-14.20	1.55 H	113	61.40	2.60
4	#5725.90	49.50	PK	78.2	-28.70	1.5 H	113	46.90	2.60
5	*5755.00	91.70	PK	/	/	1.55 H	113	50.70	41.00
6	*5755.00	81.40	AV	/	/	1.55 H	113	40.40	41.00
7	11510.00	61.70	PK	74.00	-12.30	1.50 H	66	46.00	15.70
8	11510.00	48.30	AV	54.00	-5.70	1.50 H	66	32.60	15.70

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40\_5755MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	#5714.90	59.70	PK	74.00	-14.30	1.50 V	280	57.10	2.60
2	#5714.90	46.00	AV	54.00	-8.00	1.50 V	280	43.40	2.60
3	#5722.90	62.50	PK	78.2	-15.70	1.50 V	280	59.90	2.60
4	#5725.90	45.30	PK	78.2	-32.90	1.50 V	280	42.70	2.60
5	*5755.00	92.20	PK	/	/	1.50 V	280	51.20	41.00
6	*5755.00	81.50	AV	/	/	1.50 V	280	40.50	41.00
7	11510.00	62.20	PK	74.00	-11.80	1.52 V	36	46.50	15.70
8	11510.00	48.30	AV	54.00	-5.70	1.52 V	36	32.60	15.70

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40\_5795MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5795.00	92.10	PK	/	/	1.50 H	114	51.00	41.10
2	*5795.00	81.70	AV	/	/	1.50 H	114	40.60	41.10
3	#5850.00	47.60	PK	78.2	-30.60	1.50 H	114	44.60	3.00
4	#5852.10	59.00	PK	78.2	-19.20	1.50 H	114	56.00	3.00
5	#5860.10	59.10	PK	74.00	-14.90	1.50 H	114	56.10	3.00
6	#5860.10	45.30	AV	54.00	-8.70	1.50 H	114	42.30	3.00
7	11590.00	62.20	PK	74.00	-11.80	1.51 H	98	46.60	15.60
8	11590.00	48.10	AV	54.00	-5.90	1.51 H	98	32.50	15.60

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40\_5795MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5795.00	91.80	PK	/	/	1.50 V	280	50.70	41.10
2	*5795.00	80.90	AV	/	/	1.50 V	280	39.80	41.10
3	#5850.00	45.00	PK	78.2	-33.20	1.50 V	280	42.00	3.00
4	#5852.10	59.10	PK	78.2	-19.10	1.50 V	280	56.10	3.00
5	#5860.10	58.90	PK	74.00	-15.10	1.50 V	280	55.90	3.00
6	#5860.10	45.50	AV	54.00	-8.50	1.50 V	280	42.50	3.00
7	11590.00	61.20	PK	74.00	-12.8	1.52 V	154	45.60	15.60
8	11590.00	46.90	AV	54.00	-7.10	1.52 V	154	31.30	15.60

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT20\_5180MHz)**

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	57.90	PK	74.00	-16.10	1.58 H	212	55.90	2.00
2	5150.00	44.30	AV	54.00	-9.70	1.58 H	212	42.30	2.00
3	*5180.00	98.50	PK	/	/	1.8 H	212	58.50	40.00
4	*5180.00	87.70	AV	/	/	1.558 H	212	47.70	40.00
5	#10360.00	62.10	PK	74.00	-11.90	1.52 H	100	47.10	15.00
6	#10360.00	48.20	AV	54.00	-5.80	1.52 H	100	33.20	15.00

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT20\_5180MHz)**

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	58.20	PK	74.00	-15.80	1.50 V	269	56.20	2.00
2	5150.00	44.70	AV	54.00	-9.30	1.50 V	269	42.70	2.00
3	*5180.00	97.70	PK	/	/	1.50 V	269	57.70	40.00
4	*5180.00	86.30	AV	/	/	1.50 V	269	46.30	40.00
5	#10360.00	60.20	PK	74.00	-13.80	1.58 V	94	47.20	15.00
6	#10360.00	47.50	AV	54.00	-6.50	1.58 V	94	33.50	15.00

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT20\_5220MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5220.00	97.20	PK	/	/	1.52 H	340	57.10	40.10
2	*5220.00	86.70	AV	/	/	1.52 H	340	46.60	40.10
3	#10440.00	59.50	PK	74.00	-14.50	1.52 H	62	44.50	15.00
4	#10440.00	46.80	AV	54.00	-7.20	1.52 H	62	31.80	15.00

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT20\_5220MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*2437.00	96.80	PK	/	/	1.49 V	112	56.70	40.10
2	*2437.00	85.80	AV	/	/	1.49 V	112	45.70	40.10
3	#4874.00	60.10	PK	74.00	-13.90	1.51 V	254	45.10	15.00
4	#4874.00	46.60	AV	54.00	-7.40	1.51 V	254	31.60	15.00

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT20\_5240MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5240.00	99.80	PK	/	/	1.55 H	244	59.70	40.10
2	*5240.00	88.90	AV	/	/	1.55 H	244	48.80	40.10
3	5350.00	58.10	PK	74.00	-15.90	1.55 H	244	56.10	2.00
4	5350.00	46.30	AV	54.00	-7.70	1.55 H	244	44.30	2.00
5	#10480.00	61.80	PK	74.00	-12.20	1.55 H	236	46.70	15.10
6	#10480.00	48.00	AV	54.00	-6.00	1.55 H	236	32.90	15.10

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT20\_5240MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5240.00	98.10	PK	/	/	1.55 V	280	58.00	40.10
2	*5240.00	87.50	AV	/	/	1.55 V	280	47.40	40.10
3	5350.00	58.30	PK	74.00	-15.70	1.55 V	280	56.30	2.00
4	5350.00	44.20	AV	54.00	-9.80	1.55 V	280	42.20	2.00
5	#10480.00	62.00	PK	74.00	-12.00	1.50 V	120	46.90	15.10
6	#10480.00	47.80	AV	54.00	-6.20	1.50 V	120	32.70	15.10

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT20\_5745MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	#5714.90	59.20	PK	74.00	-14.80	1.50 H	108	56.60	2.60
2	#5714.90	46.70	AV	54.00	-7.30	1.50 H	108	44.10	2.60
3	#5722.90	67.70	PK	78.20	-10.50	1.50 H	108	65.10	2.60
4	#5725.00	52.90	PK	78.20	-25.30	1.50 H	108	50.30	2.60
5	*5745.00	99.80	PK	/	/	1.50 H	108	58.80	41.00
6	*5745.00	88.30	AV	/	/	1.50 H	108	47.30	41.00
7	11490.00	61.40	PK	74.00	-12.60	1.52 H	48	45.50	15.90
8	11490.00	48.20	AV	54.00	-5.80	1.52 H	48	32.30	15.90

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT20\_5745MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	#5714.90	59.30	PK	74.00	-14.70	1.50 H	278	56.70	2.60
2	#5714.90	47.70	AV	54.00	-6.30	1.50 H	278	45.10	2.60
3	#5722.90	64.60	PK	78.20	-13.60	1.50 H	278	62.00	2.60
4	#5725.00	53.90	PK	78.20	-24.30	1.50 H	278	51.30	2.60
5	*5745.00	98.00	PK	/	/	1.50 H	278	57.00	41.00
6	*5745.00	87.70	AV	/	/	1.50 H	278	46.70	41.00
7	11490.00	61.10	PK	74.00	-12.90	1.52 H	24	45.20	15.90
8	11490.00	48.10	AV	54.00	-5.90	1.52 H	24	32.20	15.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT20_5785MHz)									
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5785.00	99.10	PK	/	/	1.52 H	70	58.00	41.10
2	*5785.00	88.80	AV	/	/	1.52 H	70	47.70	41.10
3	11570.00	61.90	PK	74.00	-12.10	1.52 H	94	46.30	15.60
4	11570.00	47.60	AV	54.00	-6.40	1.52 H	94	32.00	15.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT20_5785MHz)									
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5785.00	98.60	PK	/	/	1.52 V	280	57.50	41.10
2	*5785.00	87.70	AV	/	/	1.52 V	280	46.60	41.10
3	11570.00	60.90	PK	74.00	-13.10	1.52 V	34	45.30	15.60
4	11570.00	47.80	AV	54.00	-6.20	1.52 V	34	32.20	15.60

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT20_5825MHz)									
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5825.00	99.50	PK	/	/	1.55 H	72	58.40	41.10
2	*5825.00	87.60	AV	/	/	1.55 H	72	46.50	41.10
3	#5850.00	50.30	PK	78.2	-27.90	1.55 H	72	47.30	3.00
4	#5852.10	57.00	PK	78.2	-21.20	1.55 H	72	54.00	3.00
5	#5860.10	58.40	PK	74.00	-15.60	1.55 H	72	55.40	3.00
6	#5860.10	46.80	AV	54.00	-7.20	1.55 H	72	43.80	3.00
7	11650.00	63.10	PK	74.00	-10.90	1.50 H	65	47.50	15.60
8	11650.00	48.00	AV	54.00	-6.00	1.50 H	65	32.40	15.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT20_5825MHz)									
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5825.00	98.80	PK	/	/	1.50 V	280	57.70	41.10
2	*5825.00	88.40	AV	/	/	1.50 V	280	47.30	41.10
3	#5850.00	51.20	PK	78.20	-27.00	1.50 V	280	48.20	3.00
4	#5852.10	58.20	PK	78.20	-20.00	1.50 V	280	55.20	3.00
5	#5860.10	58.50	PK	74.00	-15.50	1.50 V	280	55.50	3.00
6	#5860.10	45.10	AV	54.00	-8.90	1.50 V	280	42.10	3.00
7	11650.00	60.10	PK	74.00	-13.90	1.52 V	332	44.50	15.60
8	11650.00	46.90	AV	54.00	-7.10	1.52 V	332	31.30	15.60

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT40\_5190MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	59.50	PK	74.00	-14.50	1.50 H	341	57.50	2.00
2	5150.00	44.10	AV	54.00	-9.90	1.50 H	341	42.10	2.00
3	*5190.00	97.60	PK	/	/	1.50 H	341	57.60	40.00
4	*5190.00	88.00	AV	/	/	1.50 H	341	48.00	40.00
5	#10380.00	61.20	PK	74.00	-12.80	1.52 H	66	46.20	15.00
6	#10380.00	47.50	AV	54.00	-6.50	1.52 H	66	32.50	15.00

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT40\_5190MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	58.70	PK	74.00	-15.30	1.50 V	275	56.70	2.00
2	5150.00	43.80	AV	54.00	-10.20	1.50 V	275	41.80	2.00
3	*5190.00	98.70	PK	/	/	1.50 V	275	58.70	40.00
4	*5190.00	87.30	AV	/	/	1.50 V	275	47.30	40.00
5	#10380.00	60.20	PK	74.00	-13.80	1.58 V	35	45.20	15.00
6	#10380.00	47.30	AV	54.00	-6.70	1.58 V	35	32.30	15.00

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT40\_5230MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5230.00	97.40	PK	/	/	1.50 H	337	57.30	40.10
2	*5230.00	86.60	AV	/	/	1.50 H	337	46.50	40.10
3	5350.00	57.60	PK	74.00	-16.40	1.50 H	337	55.60	2.00
4	5350.00	45.50	AV	54.00	-8.50	1.50 H	337	43.50	2.00
5	#10460.00	61.50	PK	74.00	-12.50	1.52 H	84	46.50	15.00
6	#10460.00	48.20	AV	54.00	-5.80	1.52 H	84	33.20	15.00

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT40\_5230MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5230.00	99.80	PK	/	/	1.50 V	275	59.70	40.10
2	*5230.00	87.30	AV	/	/	1.50 V	275	47.20	40.10
3	5350.00	56.30	PK	74.00	-17.70	1.50 V	275	54.30	2.00
4	5350.00	44.30	AV	54.00	-9.70	1.50 V	275	42.30	2.00
5	#10460.00	60.20	PK	74.00	-13.80	1.58 V	35	45.20	15.00
6	#10460.00	46.20	AV	54.00	-7.80	1.58 V	35	31.20	15.00

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT40_5755MHz)</b>									
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	#5714.90	60.30	PK	74.00	-13.70	1.55 H	113	57.70	2.60
2	#5714.90	46.00	AV	54.00	-8.00	1.55 H	113	43.40	2.60
3	#5722.90	64.30	PK	78.2	-13.90	1.55 H	113	61.70	2.60
4	#5725.90	52.50	PK	78.2	-25.70	1.55 H	113	49.90	2.60
5	*5755.00	99.70	PK	/	/	1.55 H	113	58.70	41.00
6	*5755.00	88.40	AV	/	/	1.55 H	113	47.40	41.00
7	11510.00	61.90	PK	74.00	-12.10	1.50 H	66	46.20	15.70
8	11510.00	48.10	AV	54.00	-5.90	1.50 H	66	32.40	15.70
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT40_5755MHz)</b>									
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	#5714.90	59.70	PK	74.00	-14.30	1.50 V	280	57.10	2.60
2	#5714.90	46.50	AV	54.00	-7.50	1.50 V	280	43.90	2.60
3	#5722.90	63.50	PK	78.2	-14.70	1.50 V	280	60.90	2.60
4	#5725.90	51.30	PK	78.2	-26.90	1.50 V	280	48.70	2.60
5	*5755.00	100.20	PK	/	/	1.50 V	280	59.20	41.00
6	*5755.00	89.50	AV	/	/	1.50 V	280	48.50	41.00
7	11510.00	62.20	PK	74.00	-11.80	1.52 V	36	46.50	15.70
8	11510.00	48.30	AV	54.00	-5.70	1.52 V	36	32.60	15.70

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT40\_5795MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5795.00	92.10	PK	/	/	1.50 H	114	51.00	41.10
2	*5795.00	81.70	AV	/	/	1.50 H	114	40.60	41.10
3	#5850.00	47.60	PK	78.2	-30.60	1.50 H	114	44.60	3.00
4	#5852.10	59.00	PK	78.2	-19.20	1.50 H	114	56.00	3.00
5	#5860.10	59.10	PK	74.00	-14.90	1.50 H	114	56.10	3.00
6	#5860.10	45.30	AV	54.00	-8.70	1.50 H	114	42.30	3.00
7	11590.00	62.20	PK	74.00	-11.80	1.51 H	98	46.60	15.60
8	11590.00	48.10	AV	54.00	-5.90	1.51 H	98	32.50	15.60

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT40\_5795MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5795.00	91.80	PK	/	/	1.50 V	280	50.70	41.10
2	*5795.00	80.90	AV	/	/	1.50 V	280	39.80	41.10
3	#5850.00	45.00	PK	78.2	-33.20	1.50 V	280	42.00	3.00
4	#5852.10	59.10	PK	78.2	-19.10	1.50 V	280	56.10	3.00
5	#5860.10	58.90	PK	74.00	-15.10	1.50 V	280	55.90	3.00
6	#5860.10	45.50	AV	54.00	-8.50	1.55 V	280	42.50	3.00
7	11590.00	61.20	PK	74.00	-12.8	1.50 V	154	45.60	15.60
8	11590.00	46.90	AV	54.00	-7.10	1.52 V	154	31.30	15.60

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT80_5210MHz)									
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	59.60	PK	74.00	-14.40	1.50 H	330	57.60	2.00
2	5150.00	44.80	AV	54.00	-9.20	1.50 H	330	42.80	2.00
3	*5210.00	96.80	PK	/	/	1.50 H	330	56.80	40.00
4	*5210.00	87.20	AV	/	/	1.50 H	330	47.20	40.00
5	#10420.00	61.10	PK	74.00	-12.90	1.52 H	80	46.10	15.00
6	#10420.00	47.10	AV	54.00	-6.90	1.52 H	80	32.10	15.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT80_5210MHz)									
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	60.40	PK	74.00	-13.60	1.50 V	275	58.40	2.00
2	5150.00	45.20	AV	54.00	-8.80	1.50 V	275	43.20	2.00
3	*5210.00	96.70	PK	/	/	1.50 V	275	56.70	40.00
4	*5210.00	85.50	AV	/	/	1.50 V	275	45.50	40.00
5	#10420.00	61.60	PK	74.00	-13.40	1.58 V	35	45.60	15.00
6	#10420.00	48.80	AV	54.00	-7.20	1.58 V	35	31.80	15.00

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT80_5775MHz)									
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5775.00	92.50	PK	/	/	1.50 H	114	51.40	41.10
2	*5775.00	83.40	AV	/	/	1.50 H	114	42.30	41.10
3	#5850.00	50.50	PK	78.2	-26.70	1.50 H	114	47.50	3.00
4	#5852.10	61.70	PK	78.2	-16.50	1.50 H	114	58.70	3.00
5	#5860.10	59.50	PK	74.00	-14.50	1.50 H	114	56.50	3.00
6	#5860.10	45.80	AV	54.00	-8.20	1.50 H	114	42.80	3.00
7	11550.00	61.80	PK	74.00	-12.20	1.51 H	98	46.20	15.60
8	11550.00	46.80	AV	54.00	-7.20	1.51 H	98	31.20	15.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT80_5775MHz)									
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	*5775.00	93.20	PK	/	/	1.50 H	114	52.10	41.10
2	*5775.00	84.20	AV	/	/	1.50 H	114	43.10	41.10
3	#5850.00	51.60	PK	78.2	-26.60	1.50 H	114	48.60	3.00
4	#5852.10	59.40	PK	78.2	-18.80	1.50 H	114	56.40	3.00
5	#5860.10	59.10	PK	74.00	-14.90	1.50 H	114	56.10	3.00
6	#5860.10	45.30	AV	54.00	-8.70	1.50 H	114	42.30	3.00
7	11550.00	62.20	PK	74.00	-11.80	1.51 H	98	46.60	15.60
8	11550.00	47.60	AV	54.00	-7.40	1.51 H	98	32.00	15.60

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

## 2.6. Conducted Emission

### 2.6.1. Limit of Conducted Emission

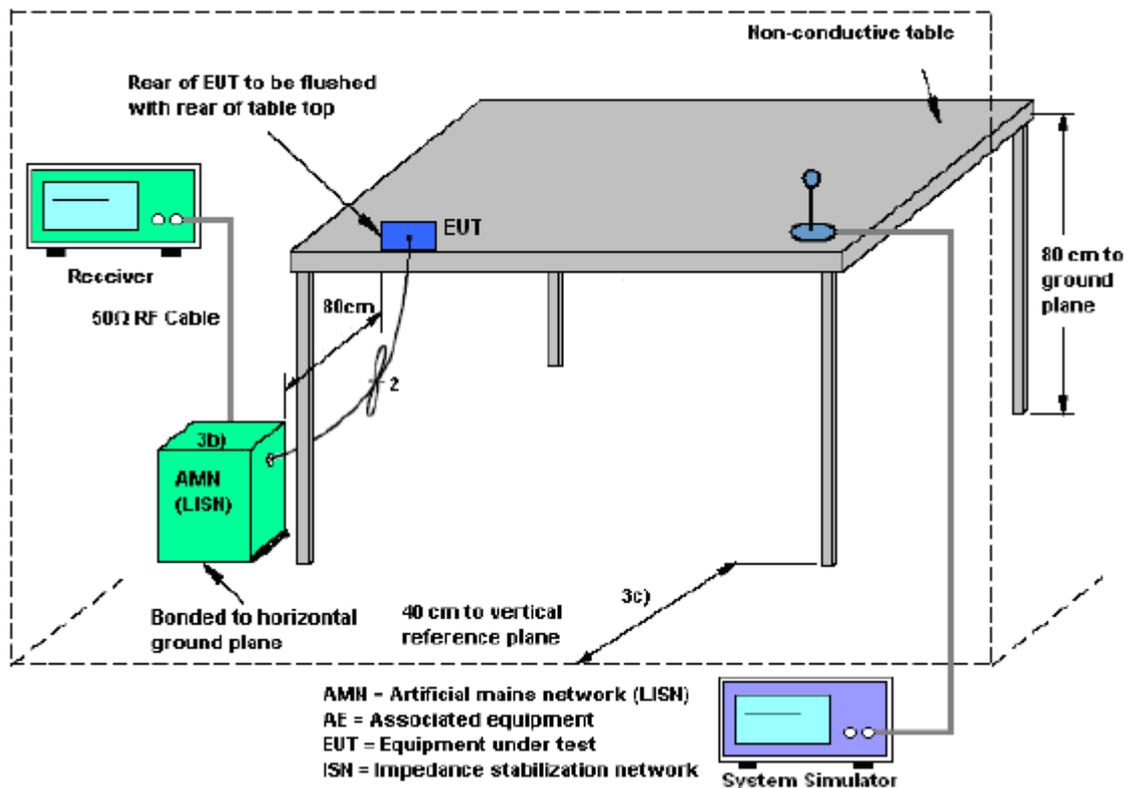
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

### 2.6.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

### 2.6.3. Test Setup

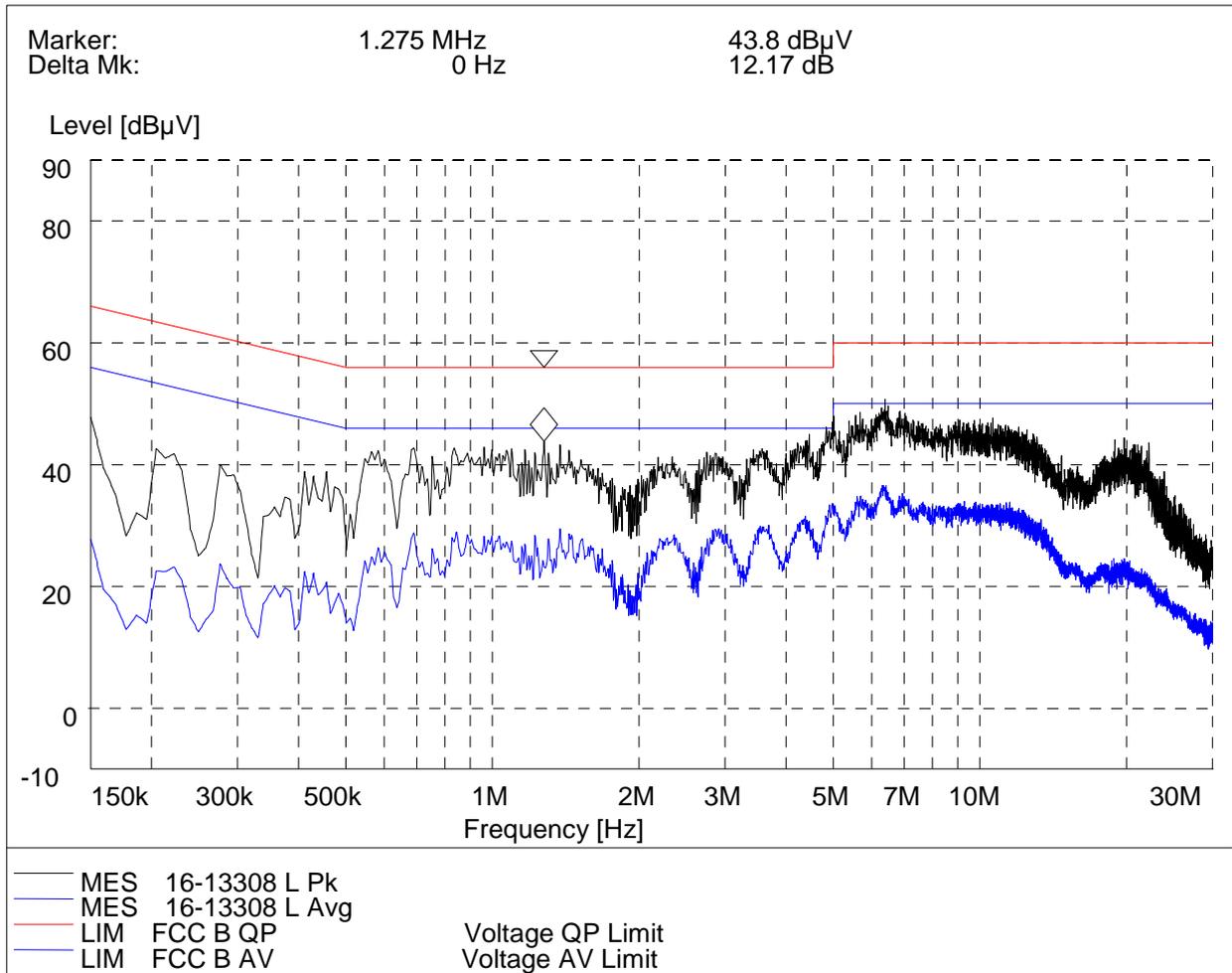


#### **2.6.4. Test Procedures**

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

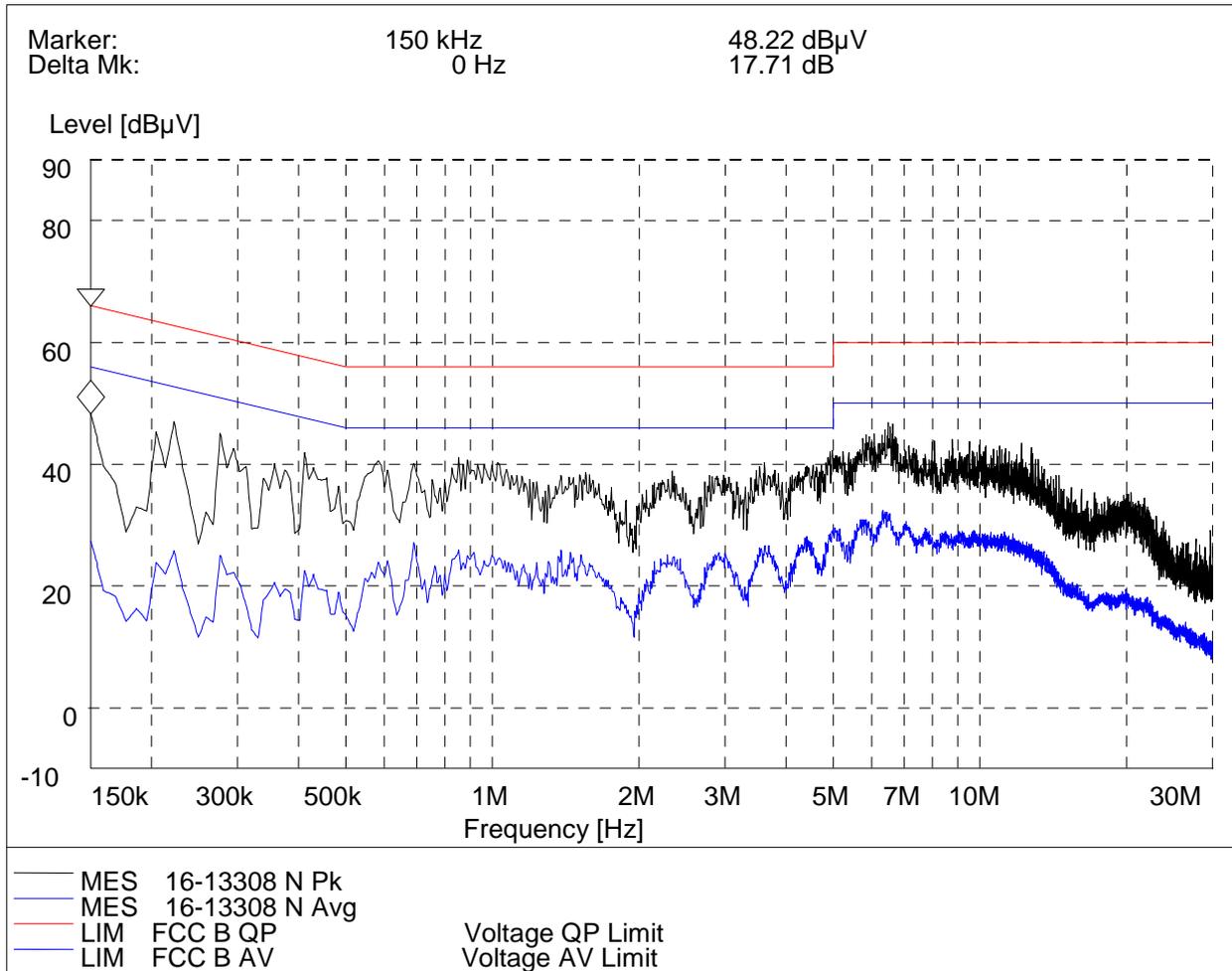
#### **2.6.5. Test Results of Conducted Emission**

The EUT configuration of the emission tests is WLAN Link + USB Cable (Charging from Adapter).



(Plot A: L Phase)

Conducted Disturbance at Mains Terminals					
L Test Data					
QP			AV		
Frequency (MHz)	Limits (dB $\mu$ V)	Measurement Value (dB $\mu$ V)	Frequency (MHz)	Limits (dB $\mu$ V)	Measurement Value (dB $\mu$ V)
0.150	66.00	45.76	0.150	56.00	27.73
0.690	56.00	40.75	0.690	46.00	28.78
1.275	56.00	40.90	1.275	46.00	23.20



(Plot B: N Phase)

Conducted Disturbance at Mains Terminals					
N Test Data					
QP			AV		
Frequency (MHz)	Limits (dB $\mu$ V)	Measurement Value (dB $\mu$ V)	Frequency (MHz)	Limits (dB $\mu$ V)	Measurement Value (dB $\mu$ V)
0.150	66.00	48.22	0.150	56.00	27.39
0.690	56.00	38.12	0.690	46.00	27.10
4.299	56.00	36.08	4.299	46.00	26.81

**Test Result: PASS**

### 3. List of measuring equipment

Description	Manufacturer	Model	Serial No.	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESIB26	A0304218	2015.06.02	2016.06.02	Radiation
Full-Anechoic Chamber	Albatross	12.8m*6.8m* 6.4m	A0412372	2015.01.05	2016.01.04	Radiation
Loop Antenna	Schwarz beck	HFH2-Z2	100047	2015.06.02	2016.06.02	Radiation
Bilog Antenna	Schwarzbeck	VULB 9163	9163-274	2015.06.02	2016.06.02	Radiation
Double ridge horn antenna	R&S	HF960	100150	2015.06.02	2016.06.02	Radiation
Ultra-wideband antenna	R&S	HL562	100089	2015.06.02	2016.06.02	Radiation
Test Antenna – Horn (18-25GHz)	ETS	UG-596A/U	A0902607	2015.06.02	2016.06.02	Radiation
Amplifier 20M~3GHz	R&S	PAP-0203H	22018	2015.06.02	2016.06.02	Radiation
Amplifier 1G~18GHz	R&S	MITEQ AFS42-00101 800	25-S-42	2015.06.02	2016.06.02	Radiation
Amplifier 18G~40GHz	R&S	JS42-180026 00-28-5A	12111.0980.00	2015.06.02	2016.06.02	Radiation
Spectrum Analyzer	R&S	FSP40	1164.4391.40	2015.07.07	2016.07.06	Conducted
Power Meter	R&S	NRVS	1020.1809.02	2015.06.02	2016.06.02	Conducted
Power Sensor	R&S	NRV-Z4	823.3618.03	2015.06.02	2016.06.02	Conducted
LISN	ROHDE&SC HWARZ	ESH2-Z5	A0304221	2015.06.02	2016.06.02	Conducted
Test Receiver	R&S	ESCS30	A0304260	2015.06.02	2016.06.02	Conducted
Cable	SUNHNER	SUCOFLEX 100	/	2015.06.02	2016.06.02	Radiation
Cable	SUNHNER	SUCOFLEX 104	/	2015.06.02	2016.06.02	Radiation

#### 4. Uncertainty of Evaluation

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	2.35dB
Radiated emissions	30MHz~1000MHz	2.45dB
	1G~18GHz	2.21dB
	18G~40GHz	1.96dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

**\*\* END OF REPORT \*\***